HITACHI

SERVICE MANUAL

NTSC

DP14G DP17 Chassis

PA No. 0147

53SWX10B 43UWX10B
53SWX12B 53UWX10B
61SWX10B 61UWX10B
61SWX12B

R/C: CLU-5711TSI
CLU-5713TSI

TO GO TO A CHAPTER, CLICK ON ITS HEADING

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CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Before servicing this chassis, it is important that the service technician read the “IMPORTANT SAFETY INSTRUCTIONS” in this service manual.

SAFETY NOTICE
USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a ⚠ on the schematics and on the parts list in this Service Data and its supplements and bulletins. Before servicing the chassis, it is important that the service technician read and follow the “Important Safety Instructions” in this Service Manual.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

PROJECTION COLOR TELEVISION

JUNE 2001 HHEA-MANUFACTURING DIVISION

IMPORTANT SAFETY INSTRUCTIONS
USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a ⚠ on the schematics and on the parts list in this service manual and its supplements and bulletins. Before servicing this chassis, it is important that the service technician read and follow the “Important Safety Instructions” in this Service Manual.

For continued X-Radiation protection, replace picture tube with original type or Hitachi approved equivalent type.

This Service Manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health and Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with solder. Also, when soldering do not inhale any smoke or fumes produced.

This television receiver provides display of television closed captioning in accordance with section 15.119 of the FCC rules.

FEDERAL COMMUNICATIONS COMMISSION NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ¥ Reorient or relocate the receiving antenna.
- ¥ Increase the separation between the equipment and the receiver.
- ¥ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ¥ Consult the dealer or an experienced radio/television technician for help.

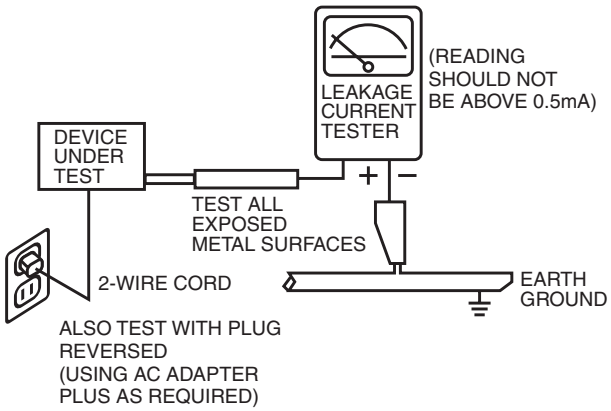
IMPORTANT SAFETY INSTRUCTION

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including but not limited to the following items.
   a. Be sure that no built-in protective devices are defective and/or have been deleted during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpaper, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**

   b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to (1) spacing between the picture tube and cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.

   c. **Antenna Cold Check** —With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input, exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohms or greater than 5.2 megohms, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.

   d. **Leakage Current Hot Check** —With the instrument completely reassembled, plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal waterpipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milliamps. Reverse the instrument power cord plug in the outlet and repeat test.



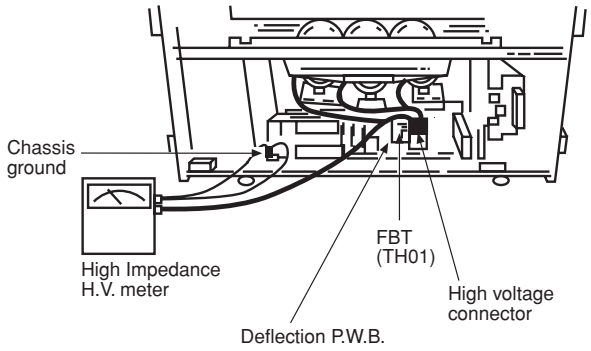
AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

e. **High Voltage —** This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply will all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit may correctly be operated.

f. **Service Warning —** With maximum contrast, operating high voltage in this receiver is lower than **31.5 kV.** In case any component having influence on high voltage is replaced, confirm that the high voltage with maximum contrast is lower than **31.5 kV.**
To measure H.V. use a high impedance H.V. meter. Connect (-) to chassis earth and (+) to the CRT anode button. (See the following connection diagram.)

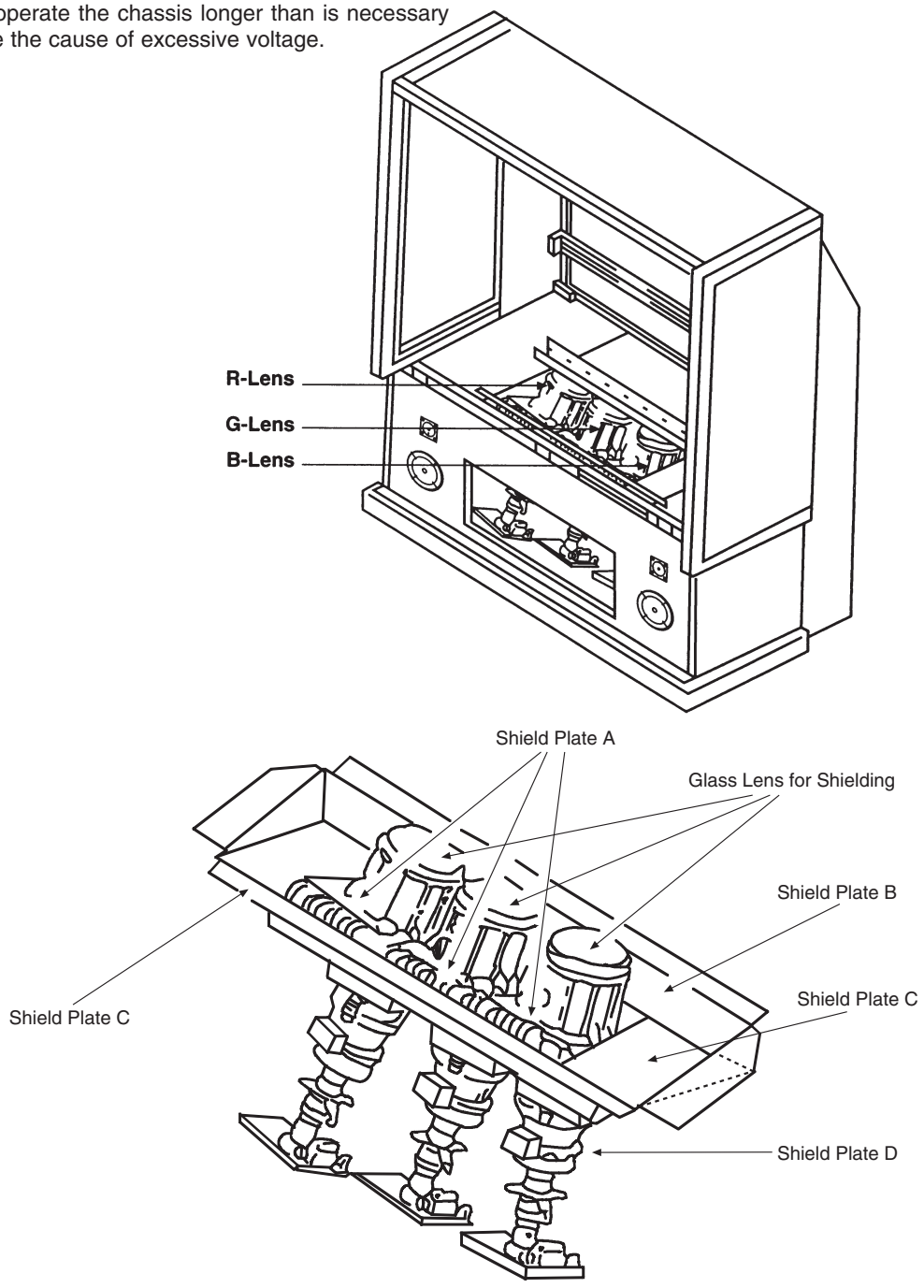
Note: Turn power switch off without fail before the connection to the anode button is made.



IMPORTANT SAFETY INSTRUCTIONS

g. **X-radiation – TUBE:** The primary source of X-radiation in this receiver is the picture tube. The tube utilized for the above mentioned function in this chassis is specially constructed to limit X-radiation emissions.
For continued X-radiation protection, the replacement tube must be the same type as the original, Hitachi approved type.
When troubleshooting and making test measurements in a receiver with a problem of excessive high voltage, avoid being unnecessarily close to the picture tube and the high voltage component.
Do not operate the chassis longer than is necessary to locate the cause of excessive voltage.

h. **X-radiation Shield –**
1. This receiver is provided with X-ray shield plates for protection against X-radiation. Do not remove X-ray shield plates A, B, or C shown in Fig. 1 unnecessarily, when troubleshooting and/or making test measurements.
2. To prevent X-radiation, after replacement of picture tube and lens, confirm these components to be fixed correctly to bracket and cabinet, and not to be taken off easily.



Detailing X-radiation shield

Fig. 1. Installation of shield lens, shield cover and shield plates (oblique view).

IMPORTANT SAFETY INSTRUCTIONS

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.

3. **Design Alteration Warning** – Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions including but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connectors, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions may void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4. **Picture Tube Implosion Protection Warning** – The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck.

5. **Hot Chassis Warning** – **a.** Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and may be safely serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. Confirm that the AC power plug is inserted correctly with an AC voltmeter by measuring between the chassis and a known earth ground. If a voltage reading in excess of 1.0V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground. **b.** Some TV receiver chassis normally have 85V AC (RMS) between chassis and earth ground regardless of the AC plug polarity. These chassis can be safely serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection. c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: **a.** near sharp edges, **b.** near thermally hot parts – be sure that leads and components do not touch thermally hot parts, **c.** the AC supply, **d.** high voltage and **e.** antenna wiring. Always inspect in all areas for pinched, out-of-plate, or frayed wiring. Do not change spacing between components and the printed circuit board. Check AC power cord for damage.

7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.

8. **PRODUCT SAFETY NOTICE** – Many TV electrical and mechanical parts have special safety-related characteristics some of which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified in Hitachi service data by shading on schematics and by a ⚠ in the parts list. Use of substitute replacement that does not have the same safety characteristics as the recommended replacement part in Hitachi service data parts list might create shock, fire, and/or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate. For the latest information, always consult the appropriate current Hitachi service literature. A subscription to, or additional copies of service literature may be obtained at a nominal charge from Hitachi.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service data and its supplements and addenda, read and follow the "Important Safety Instructions" on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Guidelines

1. Always unplug the instrument AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.

   b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.

   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.
      CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

   d. Discharging the picture tube anode.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc.) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc." The H.V. Distribution Box has an internal 400MΩ resistor (bleeder resistor) connected from the high voltage to ground. After power is removed from the instrument the high voltage will discharge through the high voltage bleeder resistor. If the tubes have high voltage after power is removed, then the bleeder resistor is defective or the bleeder ground is disconnected.

3. Discharge the picture tube's anode at any of the R, G, or B outputs on the H.V. Distribution Box only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube high voltage distribution box R, G, or B output, using an insulated handle to avoid personal contact with high voltage.

4. Do not spray chemicals on or near this instrument or any of its assemblies.

5. Unless specified otherwise in these service data, clean electrical contracts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).
   CAUTION: This is a flammable mixture. Unless specified otherwise in these service data, lubrication of contacts is not required.

6. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service data might be equipped.

7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat-sinks are correctly installed.

8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

9. Use with this instrument only the test fixtures specified in this service data.
   CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or desolder ES devices.

4. Use only can anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES device.

5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.

2. Use an appropriate gauge of resin-core solder composed of 60 parts tin/40 parts lead.

3. Keep the soldering iron tip clean and well-tinned.

4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.

5. Use the following desoldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

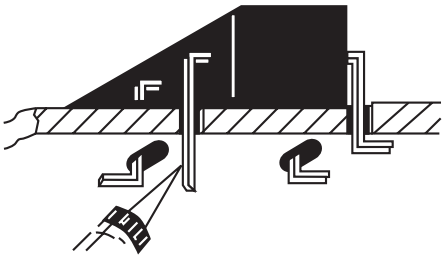
   b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuit board printed foil.

6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).

   b. First, hold the soldering iron tip and solder strand against the component lead until the solder melts.

   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
      CAUTION: Work quickly to avoid overheating the circuit board printed foil or components.

   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Solding Iron to Pry Leads

IC Removal/Replacement

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.

2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.

2. Carefully bend each IC lead against the circuit foil pad and solder it.

3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to areas.)

"Small-signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.

2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.

3. Bend into a "U" shape the replacement transistor leads.

4. Connect to replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

Power Output Transistor Devices Removal/Replacements

1. Heat and remove all solder from around the transistor leads.

2. Remove the heatsink mounting screw (if so equipped).

3. Carefully remove the transistor from the circuit board.

4. Insert new transistor in circuit board.

5. Solder each transistor lead, and clip off excess lead.

6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.

2. Bend the two remaining leads perpendicularly to the circuit board.

3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.

4. Securely crimp each connection and solder it.

5. Inspect (on the circuit board copper side) the solder joints of the two "original leads". If they are not shiny, reheat them and, if necessary, apply additional solder.

Fuses and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of circuit board hollow stake.

2. Securely crimp leads of replacement component around stake 1/8 inch from top.

3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off," the board. The following guidelines and procedures should be followed whenever this condition is encountered.

In Critical Copper Pattern Areas

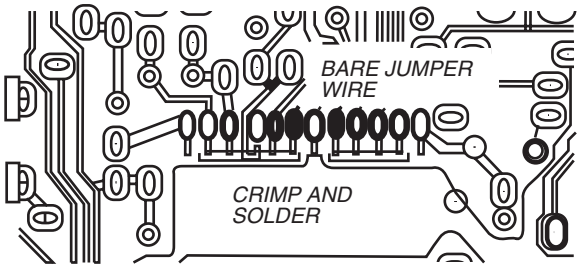
High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern. Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)

2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.



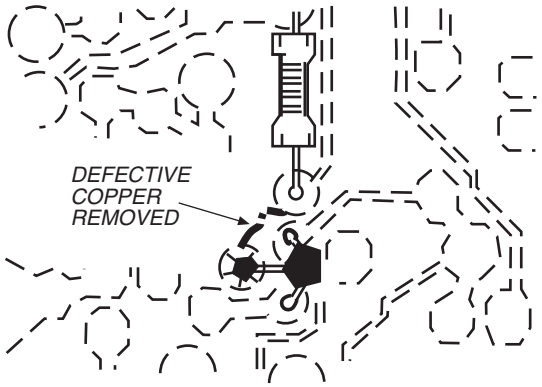
Install Jumper Wire and Solder

3. Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.

4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.



Insulated Jumper Wire

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure hazardous condition will not exist if the jumper wire opens.

2. Trace along the copper pattern from both wire sides of the pattern break and locate the nearest component directly connected to the affected copper pattern.

3. Connect insulated 20-gauge jumper wire from the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so that it does not touch components or sharp edges.

Frequency Synthesis (FS) Tuning Systems

1. Always unplug the instrument AC power cord before disconnecting or reconnecting FS tuning system cables and before removing or inserting FS tuning system modules.

2. The FS tuner must never be disconnected from the FS tuning control module while power is applied to the instrument.

3. When troubleshooting intermittent problems that might be caused by defective cable connection(s) to the FS tuning system, remove the instrument AC power as soon as the defective connector is found and finish confirming the bad connection with a continuity test. This procedure will reduce the probability of electrical overstress of the FS system semi-conductor components.

NOTE: ***These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.***

Leadless Chip Components (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chip capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitors may also be limited for the same reason. It is recommended that identical chip components be used. .

Chip resistors have a three digit numerical resistance code -1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or 1.6KΩ resistor, 0 = 0Ω (jumper).

Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.

Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.

Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either

common anode or common cathode. Check the parts list for correct diode number.

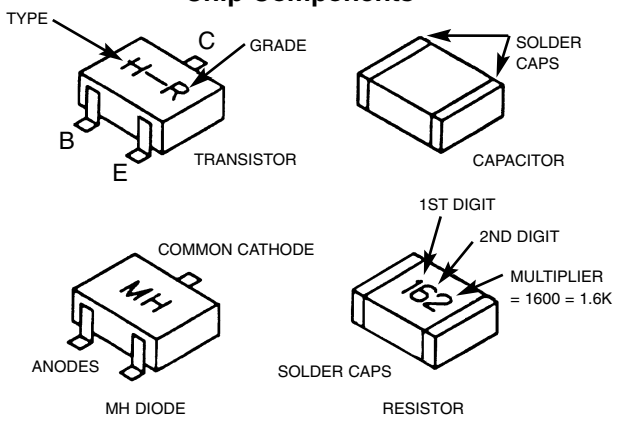
Component Removal

1. Use solder wick to remove solder from component end caps or terminals.
2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal .

Chip Component Installation

1. Put a small amount of solder on the board soldering pads.
2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds

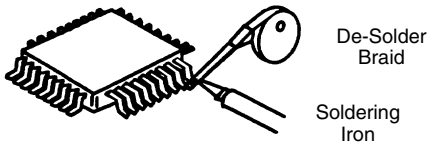
Chip Components



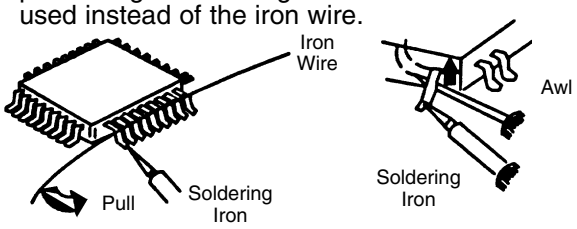
How to Replace Flat-IC —Required Tools—

- Soldering iron
- De-solder braids
- iron wire or small awl
- Magnifier

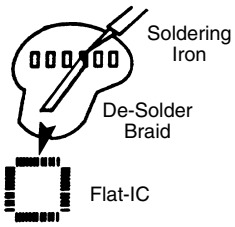
1. Remove the solder from all of the pins of a Flat-IC by using a de-solder braid.



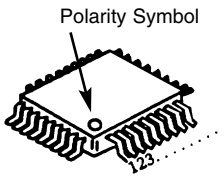
2. Put the iron wire under the pins of the Flat-IC and pull it in the direction indicated while heating the pins using a soldering iron. A small awl can be used instead of the iron wire.



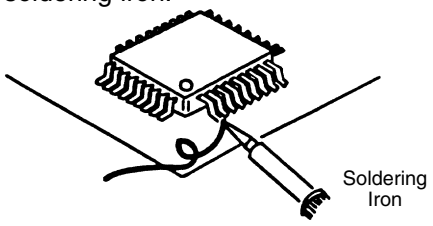
3. Remove the solder from all of the pads of the Fiat-IC by using a de-solder braid.



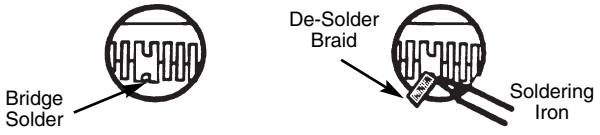
4. Position the new Flat-IC in place (apply the pins of the Flat-IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by correctly aligning the polarity symbol.



5. Solder all pins to the soldering pads using a fine tipped soldering iron.



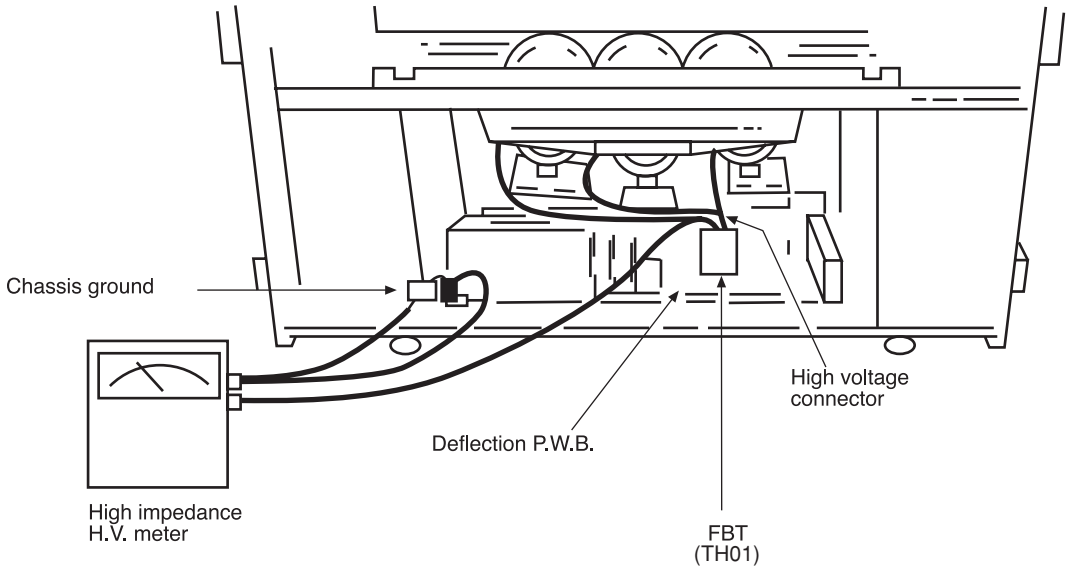
6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de-solder braid as shown in the figure below.



TECHNICAL CAUTIONS

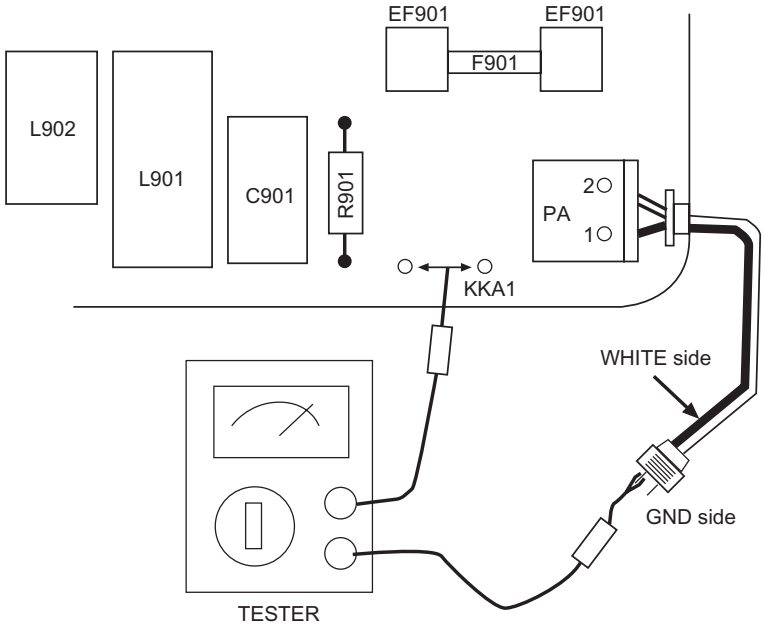
High Voltage limiter circuit operation check.

1. Turn off TV and connect jig as shown in Figure 2. Adjust jig fully counter-clockwise for minimum resistance.
2. Set the AC input to 120V AC and turn on TV.
3. Confirm test pattern on CRT is a usable picture, then slowly adjust jig until the picture disappears and TV shuts down.
4. When the limiter circuit is operating properly, High Voltage will be less than 31.5 kV at 1.7mA when TV shuts down.
5. Turn off set immediately after checking circuit operation.
6. Unplug set for one minute to reset shutdown circuit. Remove jig and voltmeter.



AC CORD POLARITY

This check is based on the UL standard. Use the jigs specified by the production technology section. The GND side (wider blade) of the AC power cord should be connected to K9Y1



SPECIFICATIONS

Model: 61SWX10B, 61SWX12B, 53SWX10B, 53SWX12B, 43UWX10B, 53UWX10B, 61UWX10B

Cathode-Ray Tube:

61SWX10B	R=P16LFT00RFA(LU)
61SWX12B	G=P16LFT00HHA(LU)
53SWX10B	B=P16LFT00BMB(EU)
53SWX12B	
53UWX10B	R=P16LSG03RJA
61UWX10B	G=P16LSG03HKA
	B=P16LSG03BMB
43UWX10B	R=P16LTG00RFA
	G=P16LTG00HHA
	B=P16LTG00BMB

Power Input: 120 volts AC, 60 Hz

Power Consumption:

- Stand-By Power
  - 43/53/61UWX10B 2.7W
  - 53/61SWX10B 2.8W
  - 53/61SWX12B 2.8W
- Power Consumption (operating)
  - 43/53/61UWX10B 219W
  - 53/61SWX10B 234W
  - 53/61SWX12B 234W
- Power Consumption (maximum)
  - 43/53/61UWX10B 262W
  - 53/61SWX10B 295W
  - 53/61SWX12B 295W

Antenna Impedance: 75 Ohm Unbalanced
VHF / UHF / CATV

Receiving Channel:

BAND	CH
VHF	2~13
UHF	14~69
EXT. Mid	(A-5)~(A-1), 4+
CATV Mid.	A~I
CATV Super	J~W
CATV Hyper	(W+1)~(W+28)

Intermediate Frequency: Picture I-F Carrier 45.75 MHz
Sound I-F Carrier 41.25 MHz
Color Sub Carrier 42.17 MHz

Video Input: 1 Volt p-p, 75 Ohm

Video Output: 1 Volt p-p, 75 ohm

Audio Input: 470 mVrms, 47 k Ohm

Stereo Audio Output: 470 mVrms, 1 k Ohm

Audio Output Power:
Front: 12 watts per channel at 10% distortion,
8 ohm Impedance. Max output — 15 watts.

Anode Voltage:

DP14G	30.2±0.2kv (1.20±0.2mA)
DP17	31.7kv±0.2kv (1.10±0.2mA)

Brightness:	**43**	**53**	**61**
(white screen)	320cd/m^2	260cd/m^2	190cd/m^2

Speakers: 2 Woofers - 5 inch (120 mm) round
2 Tweeters - 2 inch (50 mm) round

Dimension:

	43	53	61
Height (in.)	39	54 $^1/_{32}$	61 $^7/_{32}$
Width (in.)	41 $^7/_{32}$	50 $^{17}/_{32}$	57 $^1/_2$
Depth (in.)	20 $^5/_8$	29	29 $^{19}/_{32}$
Weight (lbs.)	153	245	350

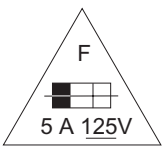
Circuit Board Assemblies:

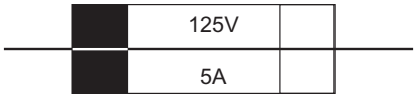
C.P.T. (B) P.W.B.	Terminal A P.W.B.
C.P.T. (G) P.W.B.	Terminal B P.W.B.
C.P.T. (R) P.W.B.	VM P.W.B.
Audio Out P.W.B.	Surround P.W.B.
2H P.W.B.	Power Deflection P.W.B.
Power Supply P.W.B.	Control P.W.B.
Signal P.W.B.	Control Sub P.W.B.
Convergence P.W.B.	Sensor Distribution P.W.B.

CIRCUIT PROTECTION

CAUTION: Below is an EXAMPLE only. See Replacement Parts List for details. The following symbol near the fuse indicates fast operation fuse (to be replaced). Fuse ratings appear within the symbol.

Example:



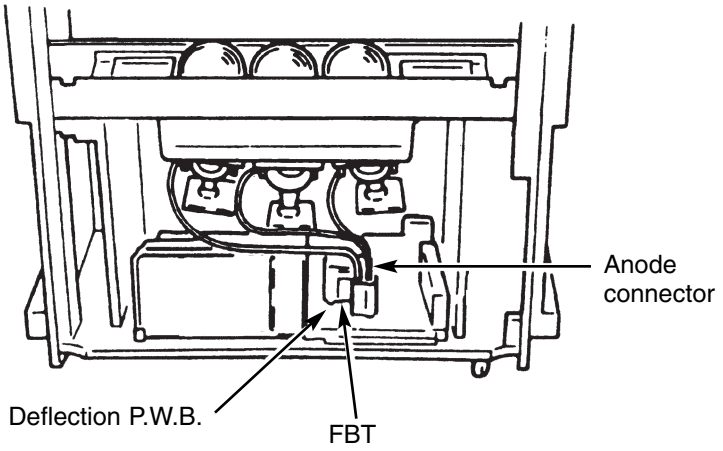


RISK OF FIRE - REPLACE FUSE AS MARKED

The rating of fuse F901 is 5A - 125V.
Replace with the same type fuse for continued protection against fire.

CAUTIONS WHEN CONNECTING / DISCONNECTING THE HV CONNECTOR

Perform the following when the HV connector (anode connector) is removed or inserted for CPT replacement, etc.



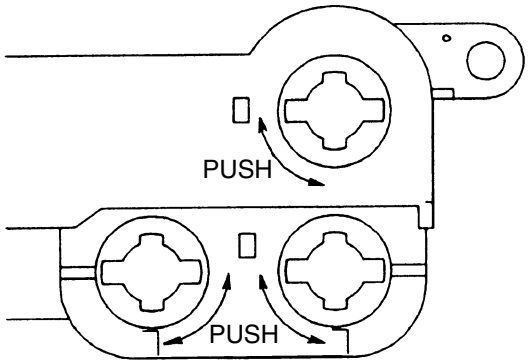


Fig. A

During Removal

1. Roll out silicon cover from FBT's contact area slowly.
2. While turning the connector about 90 degrees following the arrow (0 position), push the connector slightly towards the case. (Fig. A)
3. Remove the connector slowly by pulling it away from the case.

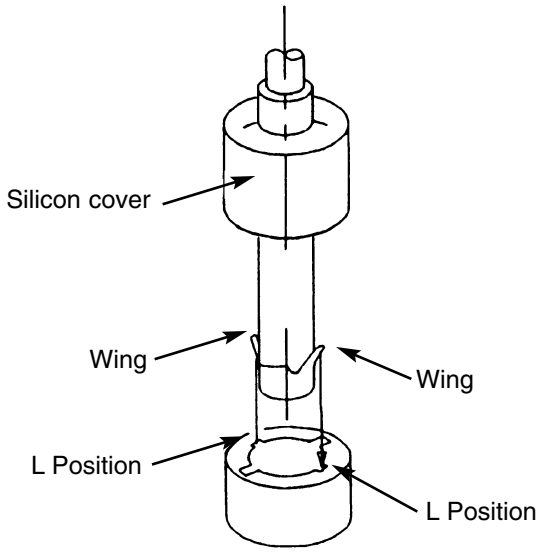


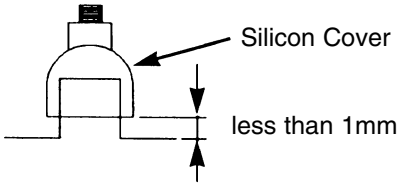
Fig. B

During Insertion

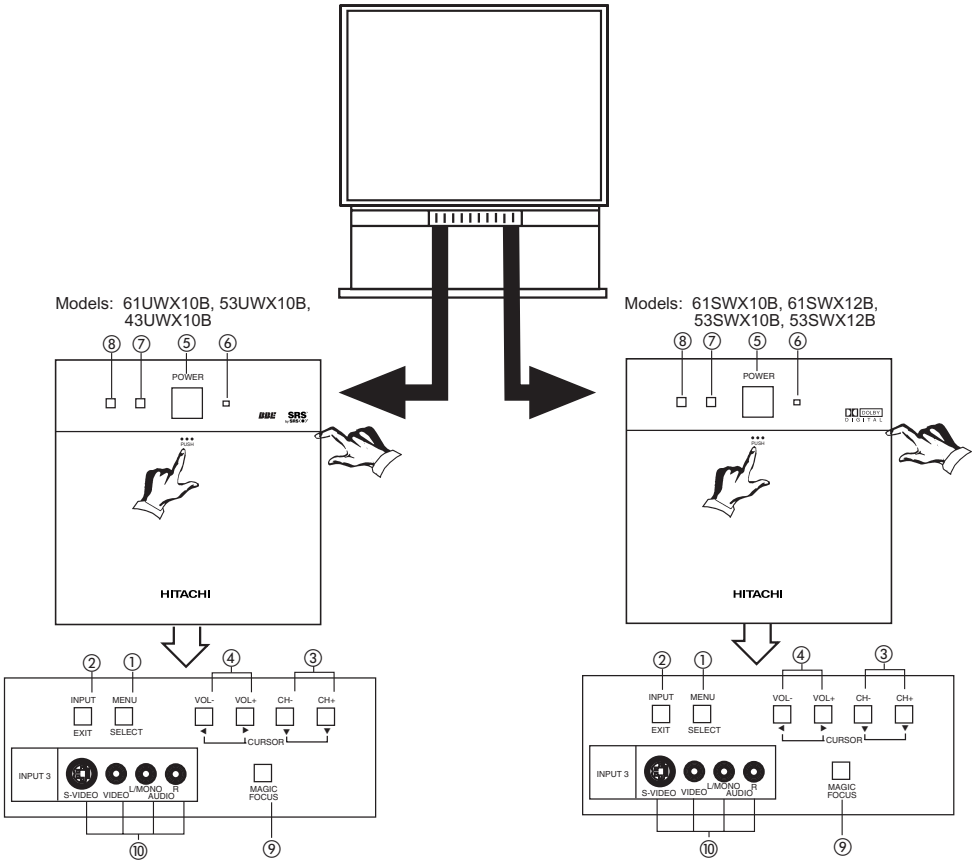
1. Please refer to direction for insertion as shown in Fig. B (L position). Insert connector until "CLICK" sound is heard.
2. Make sure the connector is pressed right in, so that it has a good contact with the spring.
3. Confirm the contact by pulling the connector slightly. (Don't pull hard because it may damage the connector).
4. Cover the high voltage output by carefully pushing silicon cover onto it. (Don't turn the connector).

(REMARK)

1. Make sure the silicon cover is covering the high voltage output.

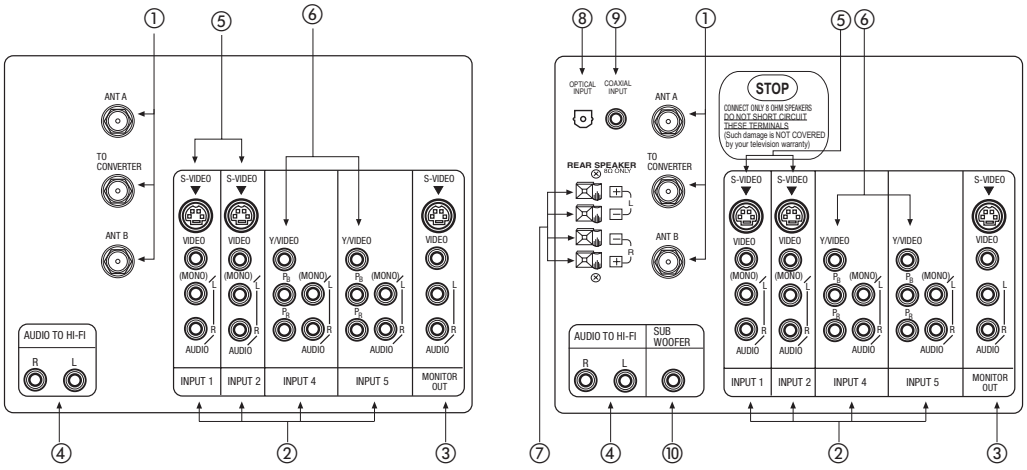


GENERAL INFORMATION



Models: 61UWX10B, 53UWX10B, 43UWX10B

Models: 61SWX10B, 61SWX12B 53SWX10B, 53SWX12B



① **Antenna Input/Output**

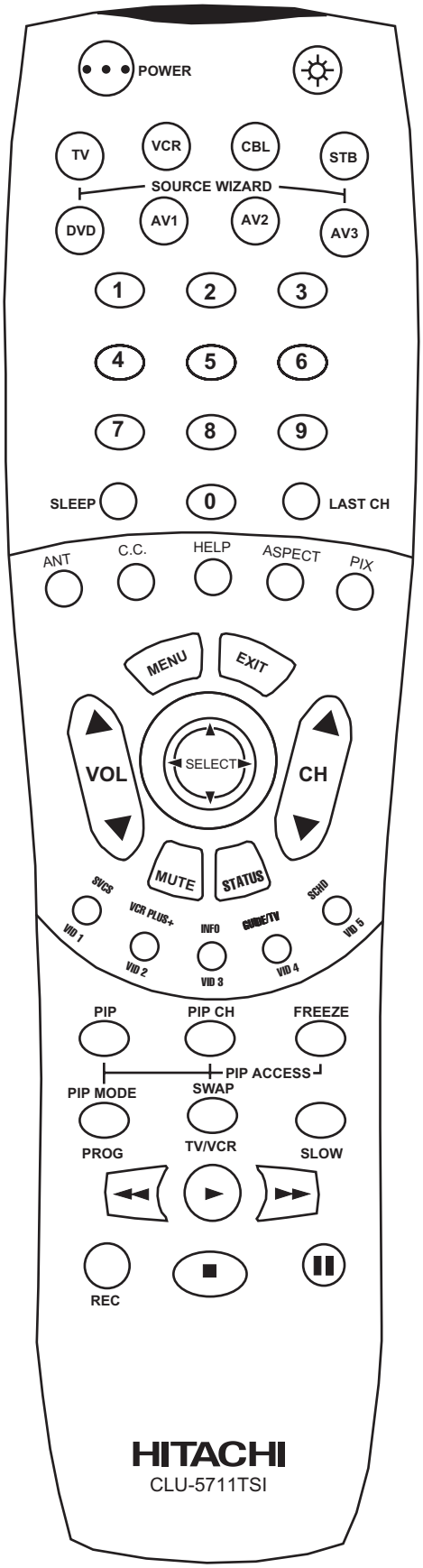
② **Audio/Video Inputs 1, 2, 4 and 5**

③ **MONITOR OUT**

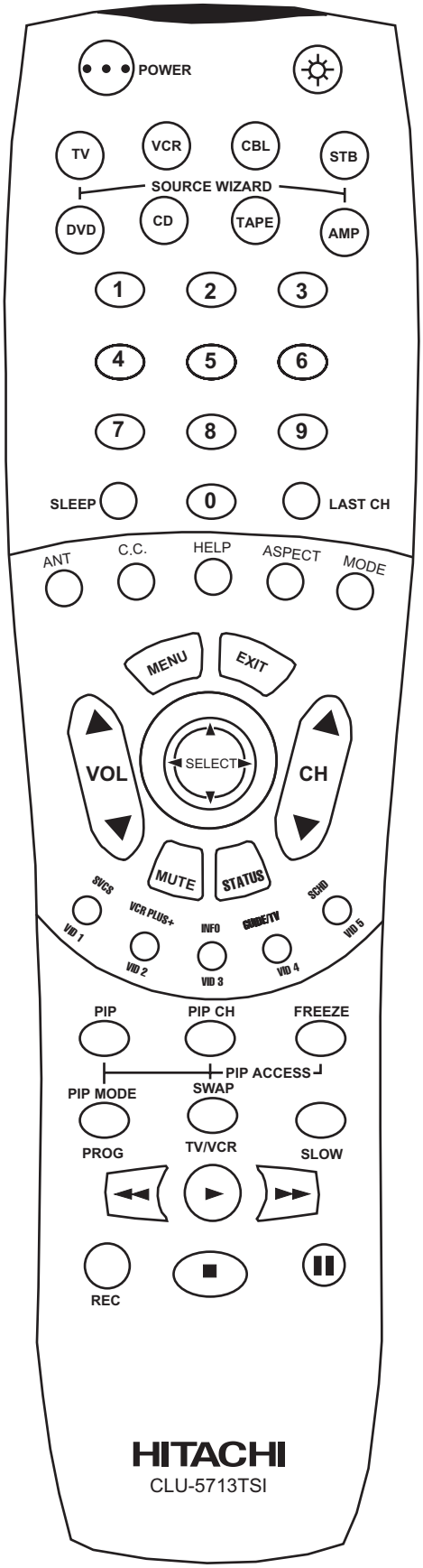
④ **AUDIO TO HI-FI Output**

⑤ **S-VIDEO Inputs 1 and 2**

⑥ **Component Input Y-P_BP_R**

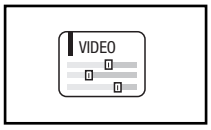


CLU-5711TSI

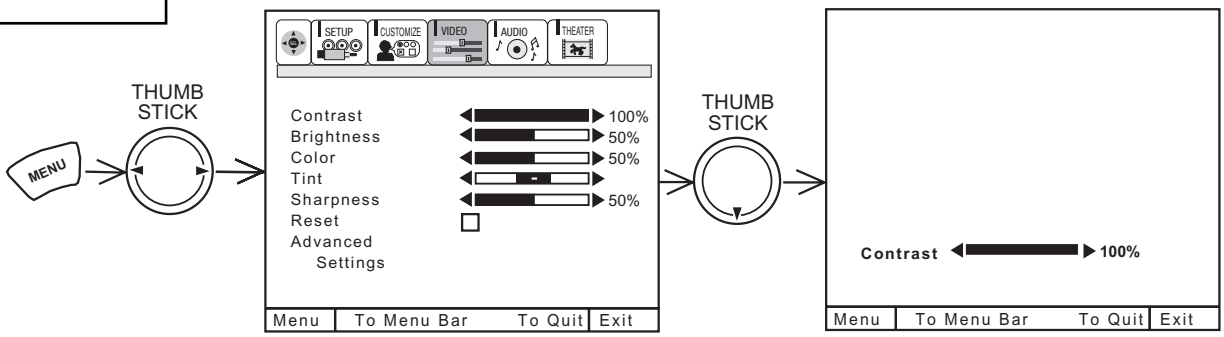


CLU-5713TSI

CUSTOMIZED PICTURE AND SOUND ADJUSTMENTS



Select VIDEO to adjust picture settings and improve picture quality.



Use the THUMB STICK ▲ or ▼ to highlight the function to be adjusted.
Press the THUMB STICK ◄ or ► to adjust the function.
Press EXIT to quit menu.

CONTRAST — Use this function to change the contrast between black and white levels in the picture. This adjustment will only affect the picture when ADVANCED SETTINGS PERFECT PICTURE is OFF.

BRIGHTNESS — Use this function to adjust overall picture brightness.

COLOR — Use this function to adjust the level of color in the picture.

TINT — Use this function to adjust flesh tones so they appear natural. (See notes below.)

SHARPNESS — Use this function to adjust the amount of fine detail in the picture.

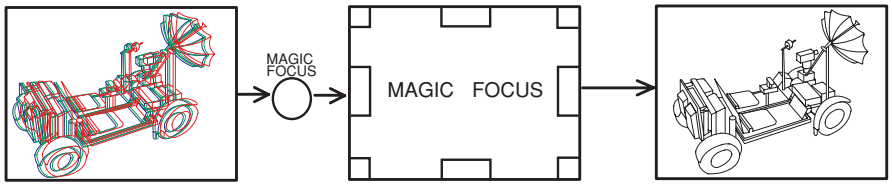
RESET — When RESET is selected, press down on THUMB STICK ► to return video adjustments to factory preset conditions.

NOTE:
1. It may be necessary to adjust TINT to obtain optimum picture quality when using the COMPONENT: Y-P_BP_R Input jacks.
2. If you are using the COMPONENT VIDEO input jacks (Y-P_BP_R) and notice that the TINT and COLOR are abnormal, check to make sure that COMPONENT SET-COLOR SYSTEM is set properly.

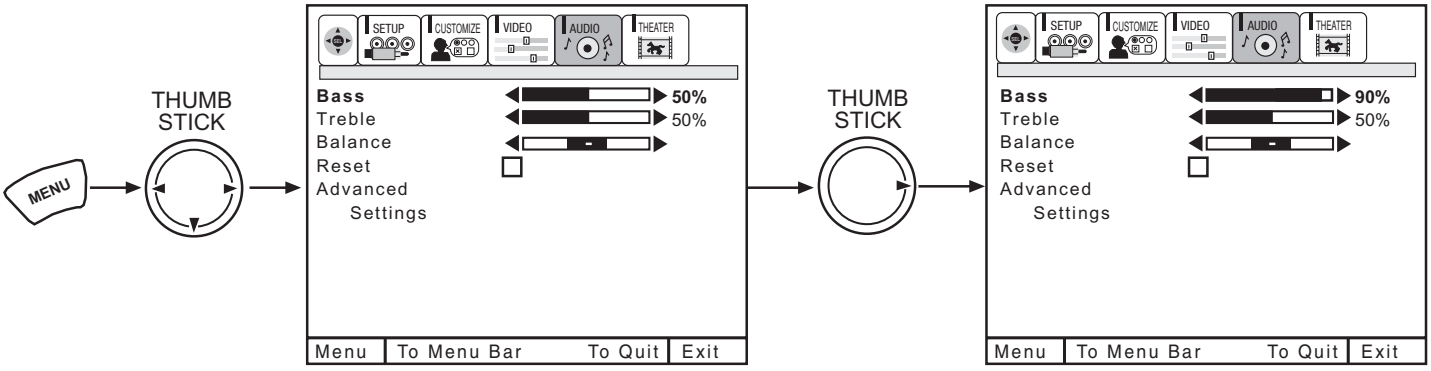
MAGIC FOCUS

The Magic Focus button on the front panel will align the convergence when pressed.

Press the front panel MAGIC FOCUS button momentarily for auto setup.



Select AUDIO to adjust the TV to your preference and to improve the sound quality.



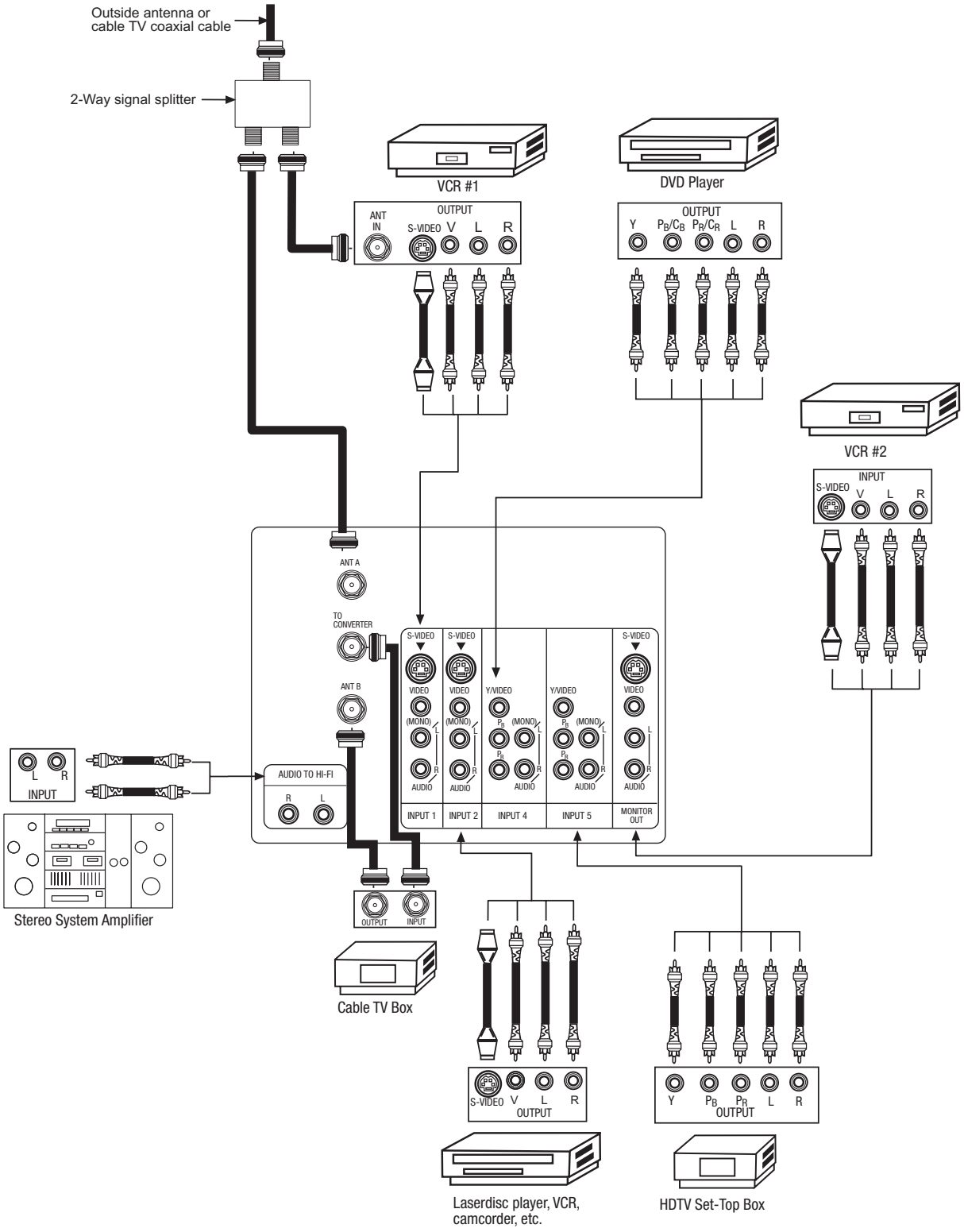
Use THUMB STICK ▲ or ▼ to highlight the function to be adjusted.
Press THUMB STICK ◄ or ► to adjust the function.
Press EXIT to quit MENU.

NOTE: If BASS is selected you are adjusting BASS. The additional menu items TREBLE and BALANCE can be selected and adjusted in the same manner.

BASS	This function controls the low frequency audio to all speakers.
TREBLE	This function controls the high frequency audio to all speakers.
BALANCE	This function will control the left to right balance of the TV internal speakers and the AUDIO TO HI FI output.
RESET	When RESET is selected, press CURSOR ► to return audio adjustments to factory preset conditions.

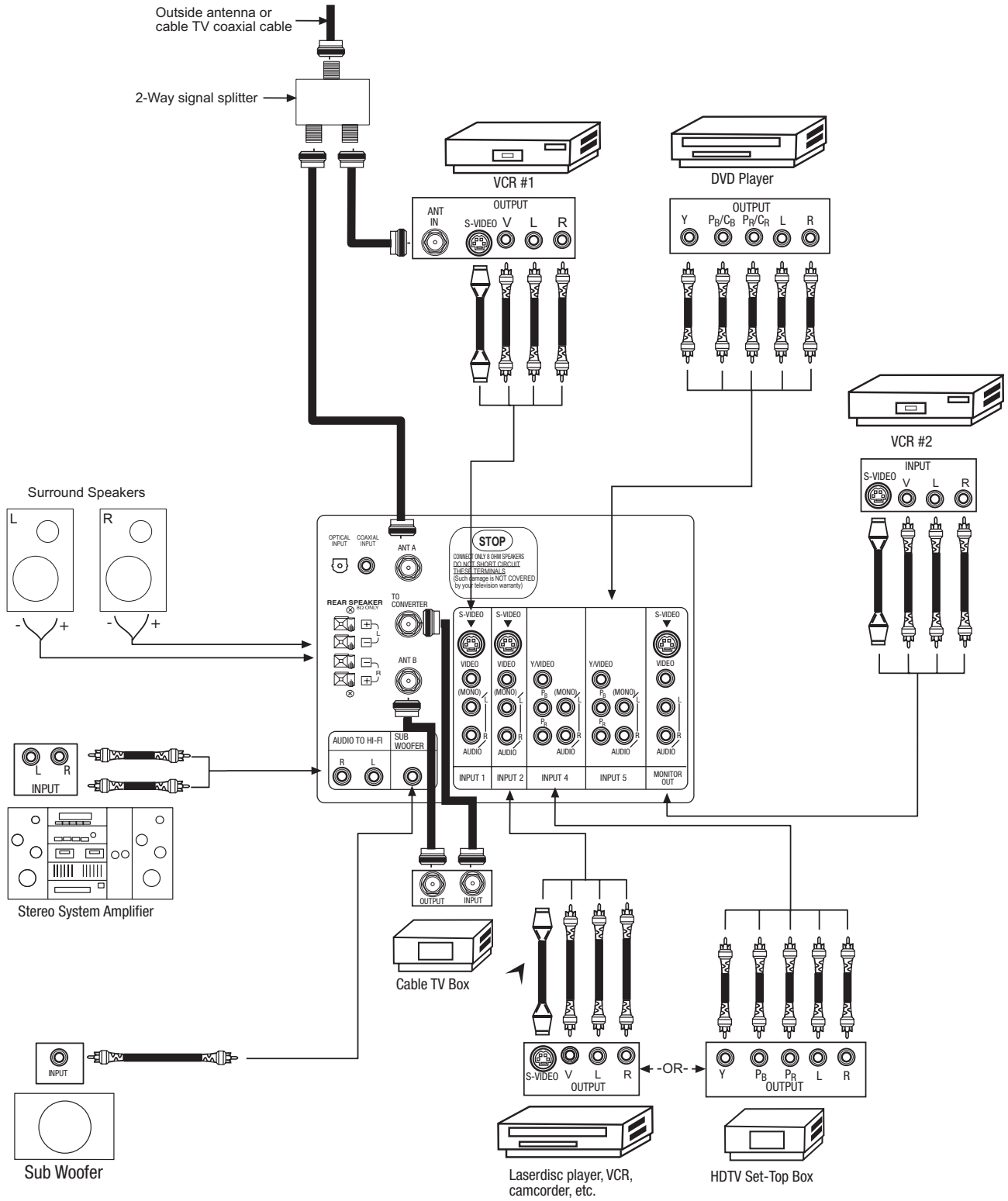
REAR PANEL CONNECTIONS

TYPICAL FULL-FEATURE SETUP
43/53/61UWX10B



NOTE:
1. Connect only 1 component to each input jack.
2. Follow connections that pertain to your personal entertainment system.
3. Standard video signal (composit video) can be input to all video inputs. (Video 1 ~ VIdeo 5).

TYPICAL FULL-FEATURE SETUP
53/61SWX10B AND 53/61SWX12B

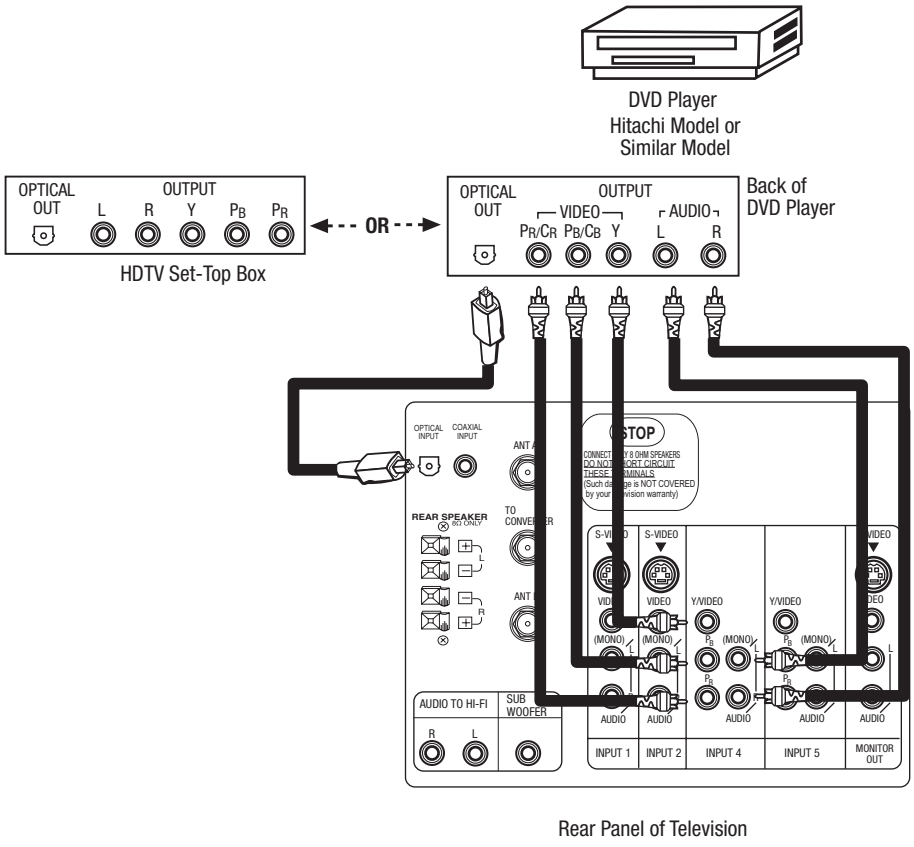


NOTE:
1. Connect only 1 component to each input jack.
2. Follow connections that pertain to your personal entertainment system.
3. Standard video signal (composit video) can be input to all video inputs. (Video 1 ~ VIdeo 5).

CONNECTING EXTERNAL VIDEO SOURCES

CONNECTING A COMPONENT SOURCE TO VIDEO 4 OR 5: Y-P_BP_R.

1. Connect the cable from the Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (Y) jack, as shown on the TV set below.
2. Connect the cable from the C_B/P_B OUT or B-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT ($P_{B)}$ jack.
3. Connect the cable from the C_R/P_R OUT or R-Y OUT of the Laserdisc/DVD player or HDTV set top box to the INPUT (P_R) jack.
4. Connect the cable from the AUDIO OUT R of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/R) jack.
5. Connect the cable from the AUDIO OUT L of the Laserdisc/DVD player or HDTV set top box to the INPUT (AUDIO/L) jack.
6. Press the VID4~VID5 button, to view the program from the Laserdisc/DVD player or HDTV set top box. The VIDEO icon disappears automatically after approximately eight seconds.
7. Press the ANT button to return to the previous channel.



Rear Panel of Television

NOTE:

1. You may use standard video signal for INPUT:4 and 5.
2. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.
3. See pages 17 and 18 for tips on REAR PANEL CONNECTIONS.

CONNECTING EXTERNAL VIDEO SOURCES

CONNECTING AN S-VIDEO SOURCE TO INPUT 1, 2 AND 3

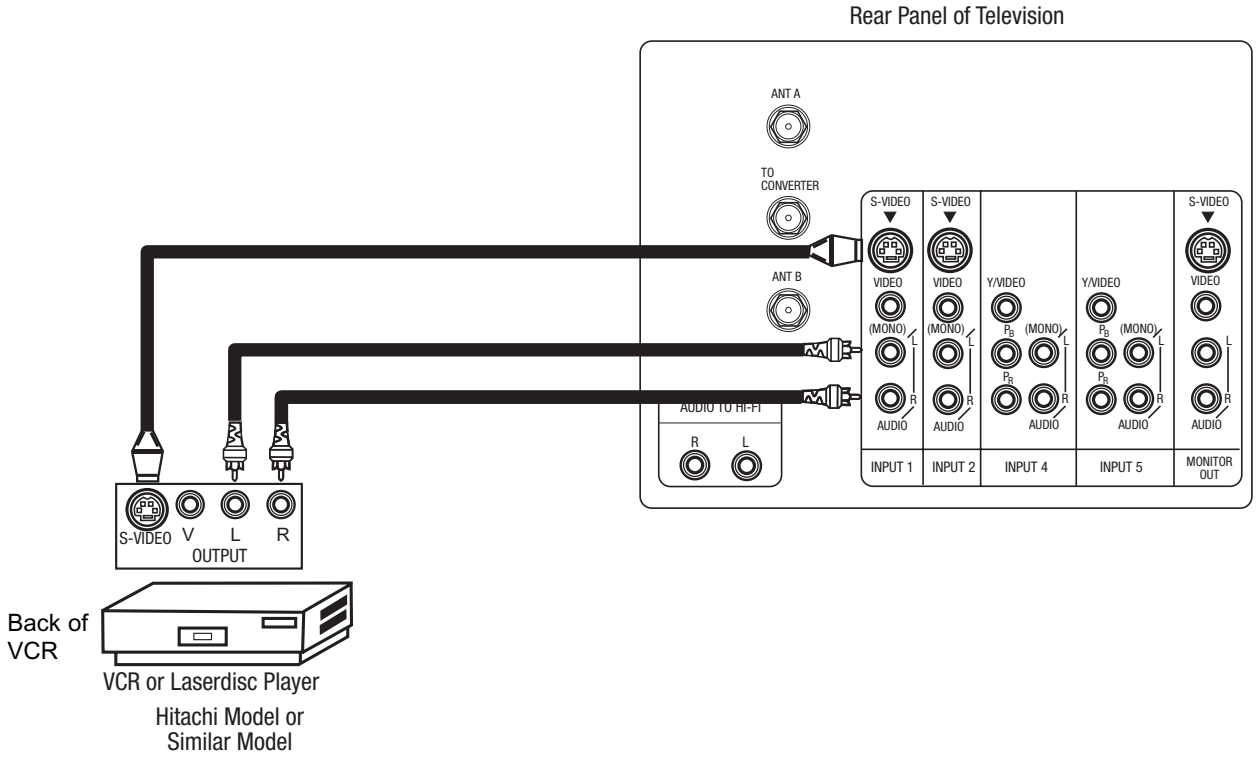
1. Connect the cable from the S-VIDEO OUT of the VCR or the laserdisc player to the INPUT (S-VIDEO) jack, as shown on the TV set below.

2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.

3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.

4. Press the VID1~VID3 button to view the program from the VCR or laserdisc player. The VIDEO icon disappears automatically after approximately eight seconds.

5. Press the ANT button to return to the previous channel.



NOTES:

1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.

2. A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.

CONNECTING EXTERNAL VIDEO SOURCES

CONNECTING A STEREO SOURCE TO INPUT1~INPUT5

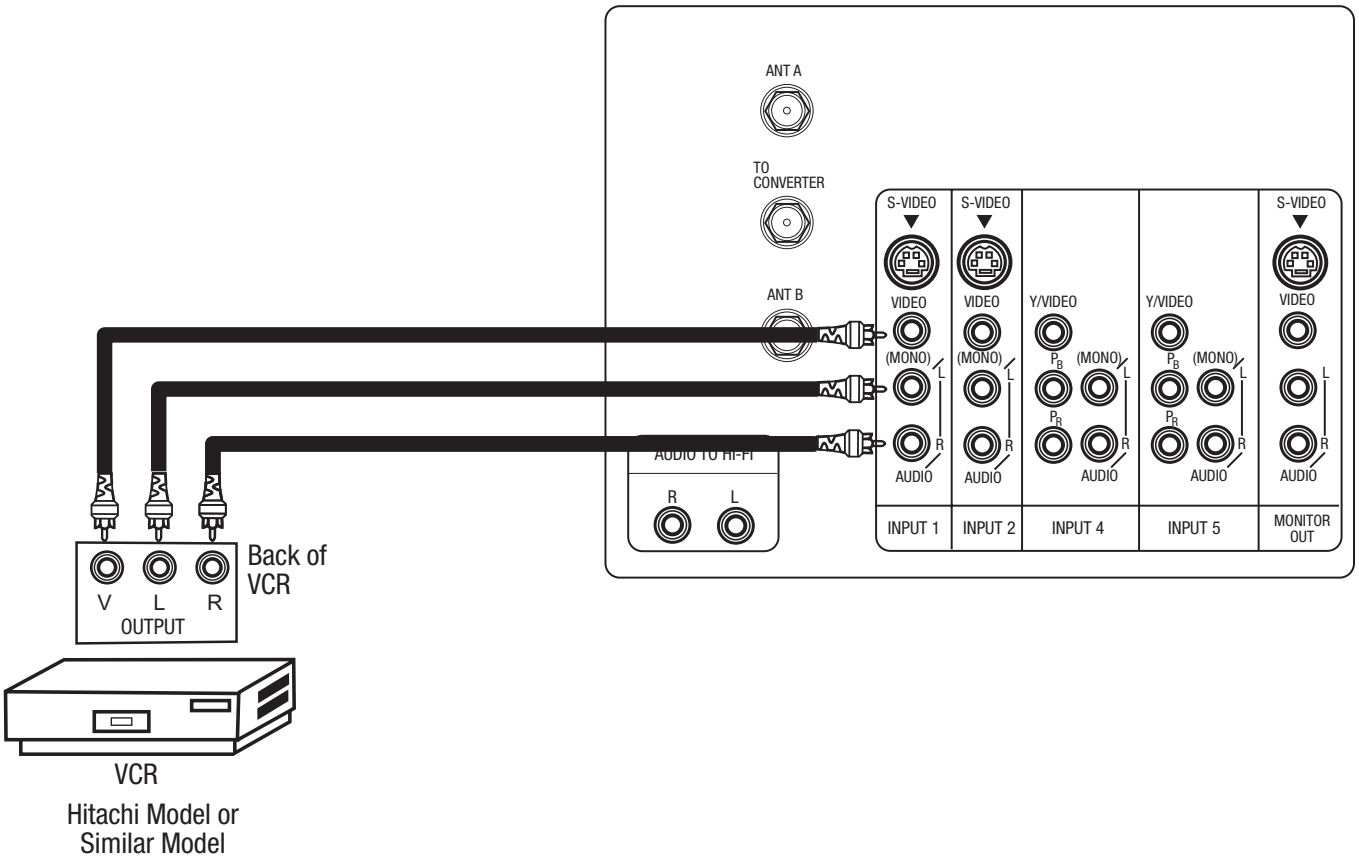
1. Connect the cable from the VIDEO OUT of the VCR or the laserdisc player to the INPUT (VIDEO) jack, as shown on the TV set below.

2. Connect the cable from the AUDIO OUT R of the VCR or the laserdisc player to the INPUT (AUDIO/R) jack.

3. Connect the cable from the AUDIO OUT L of the VCR or the laserdisc player to the INPUT (AUDIO/L) jack.

4. Press the VID1~VID5 button to view the program from the VCR or laserdisc player. The VIDEO icon disappears automatically after approximately eight seconds.

5. Press the VID1~VID5 button to return to the previous channel.



NOTES:

1. Completely insert the connection cord plugs when connecting to rear panel jacks. The picture and sound that is played back will be abnormal if the connection is loose.

2. A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output. Refer to your VCR operating guide for more information on line input-output connections.

As the digital era dawns, Hitachi has models that provide the best possible images today...and tomorrow. Our HDTV Ready model incorporates new Flex Converter technology to display a high quality 1080i (high definition scanning) or 540P (progressive scanning) image; this same circuitry enables it to accept a full 1080i HDTV signal from a digital set-top box now or in the future.

FLEX CONVERTER TECHNOLOGY

With current analog broadcasts, there is just one level of picture quality. In the new age of digital TV, there will be several levels. The highest, called HDTV, can be as high as 1080i.The next level, called HDTV, can be 720P. The standard level, SDTV, can be 480P or 480i. Hitachi has developed the Flex Converter, advanced circuitry that allows your UltraVision UWX and SWX series television to produce true 1080i HDTV resolution with an HDTV set-top box. It converts analog 480i signals to the higher-quality 540P signals with no scan lines or flicker. The FDX and UDX needs a set-top box to receive any Digital Signal.

COMPONENT VIDEO

Component Video inputs accept separate blue, red & B/W signals from a high resolution digital source as DVD or digital set-top box to provide a higher resolution picture.

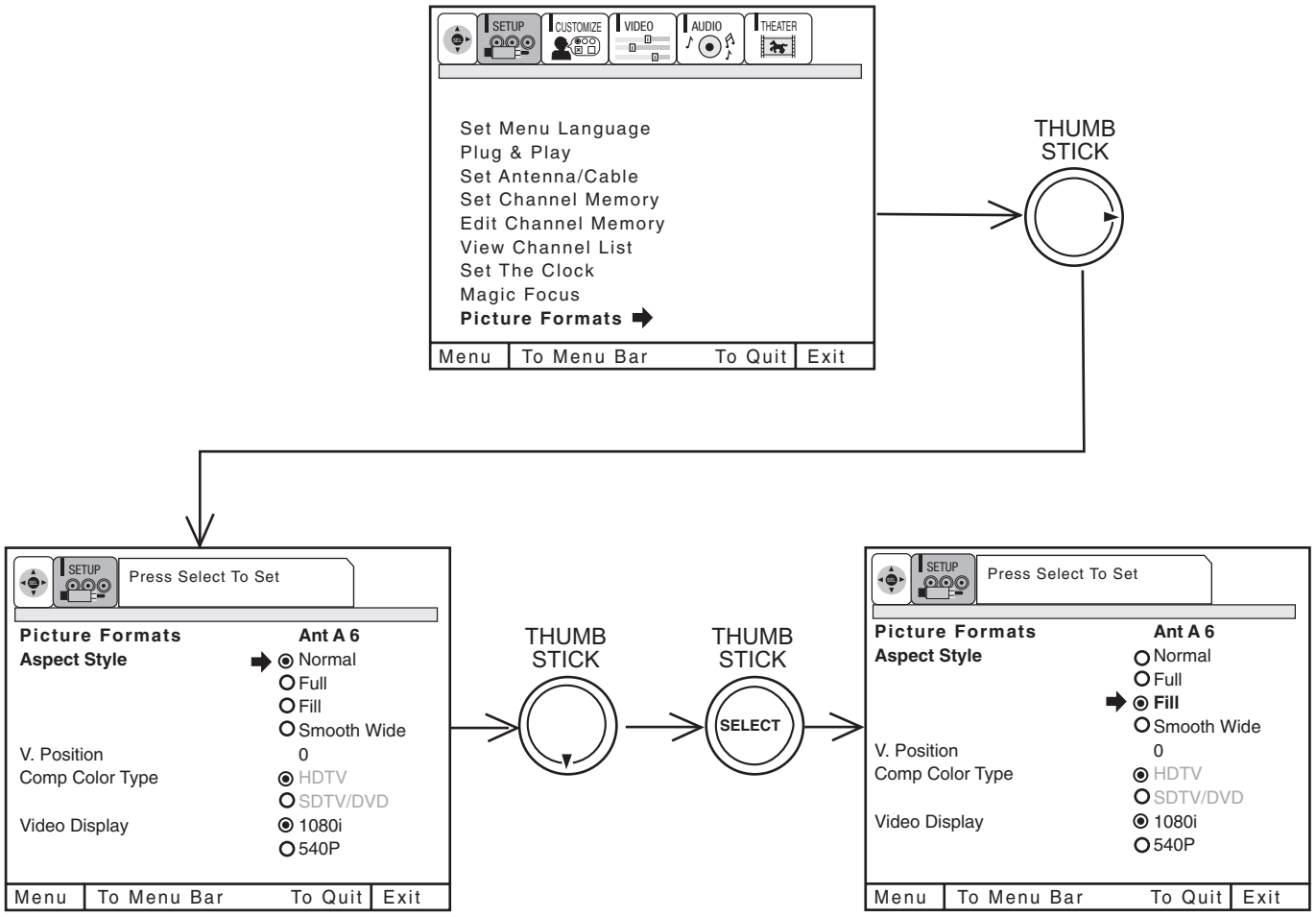
3DYC (DIGITAL 3DYC COMB FILTER)

The Digital 3DYC Comb Filter analyzes three lines of information from a single video frame as well as lines from adjacent frames. This technology eliminates the flickering that a detailed pattern or scene would normally cause, for the cleanest, neatest picture possible.

PROGRESSIVE SCANNING

A standard TV uses Interlaced Scanning where each frame of video is broken into two fields, each providing alternating scan lines. This can leave noticeable scan lines and cause flickering. With Progressive Scanning, complete frames are displayed for a smoother picture with no scan lines and no flicker. This allows you to get the optimal picture quality from today s high resolution digital sources such as DVD or a digital set-top box.

PICTURE FORMATS The PICTURE FORMATS function is very useful when setting up reception High Definition, Standard Definition and NTSC signals.

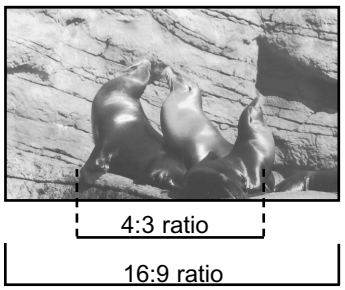


ASPECT STYLE

If you receive an image with a 4:3 aspect ratio, the image will be displayed at that ratio on your HDTV unless you specify otherwise. The Picture Format menu allows you to adjust the image through the following options:

Normal Choose this when receiving a 4:3 image and you want the on-screen appearance of the video to be a centered picture with side panels (blank areas) on the right and left sides.

Full Choose this when you want the television to adjust the 4:3 image horizontally so it fills your 16:9 screen. No side panels will be added, and the image is vertically unaltered. This setting is especially useful for viewing 16:9 formatted DVDs.



ASPECT STYLE

Fill This function allows you to select when receiving either NTSC or SDTV. Full screen picture is available in this mode when receiving letterbox signal. Both vertical edges will be hidden if you select Fill for ordinary 4:3 picture.

Smooth Wide This function allows you to select when receiving either NTSC or SDTV signal. 4:3 picture is expanded horizontally as being close to both left and right sides. It keeps 4:3 ratio in the center of the picture, then expands as it is close to both left and right edge of the picture to show picture distortion minimized. This function allows you to watch picture without side panel for 4:3.

Some digital (ATSC format) stations may transmit 4:3 images in a way that will not allow expansion. You will be unable to adjust the picture format.

V. POSITION

This function allows you to select when aspect style is either Full or Fill or Smooth Wide. Vertical position can be changed with this mode. For example, it will be useful for centering the picture when there is gray area at both top and bottom of the picture with HDTV signal. Adjustable range is -10 (video center is toward bottom of screen) to +10 (video center is toward top of screen).

COMPONENT COLOR TYPE

This function allows you to automatically change tint and color coordinates for DTV programs.

HDTV - High Definition Television - Use for High Vision Signal Y-P_BP_R from HDTV Set-Top Box.
SDTV /DVD - Standard Definition Television or DVD (Digital Versatile Disc Player) Y-C_BC_R.

VIDEO DISPLAY

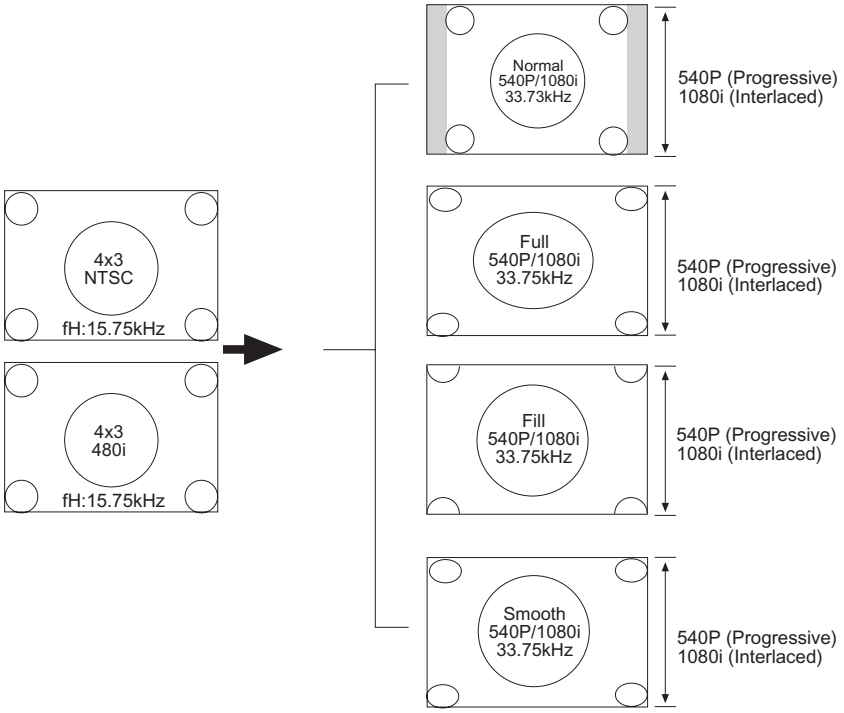
The Video Display feature allows you to display 1080i or 540P signal modes. This feature selection is not available when 1080i signal is input.

NOTES:

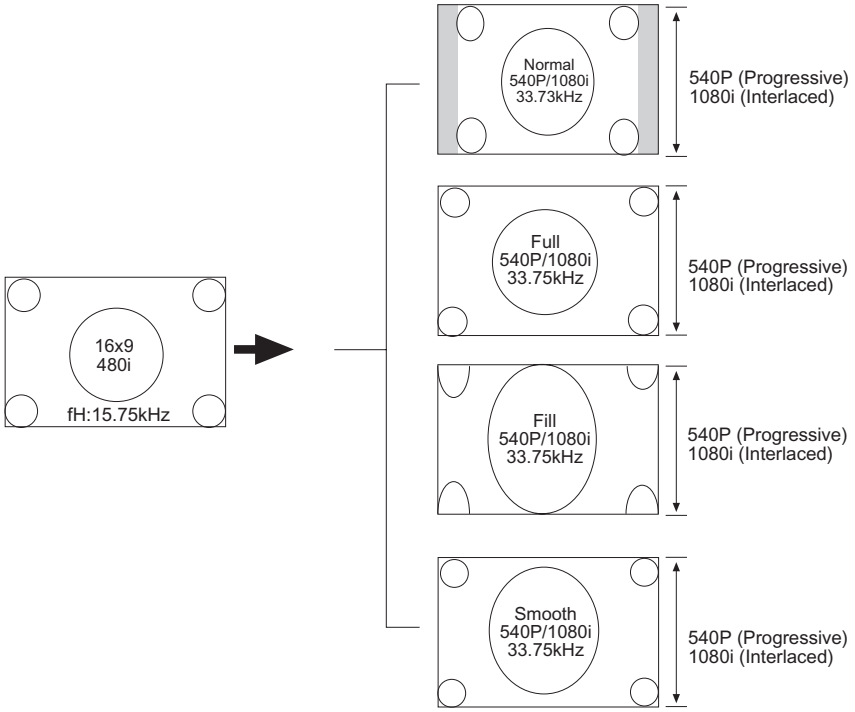
1. The aspect Style setting you select for an ANT input will automatically be set for the other ANT input. However, all three video inputs have independent Aspect Style settings.
2. You will not be able to access the V. Position menu if Aspect Style-Normal is set.
3. You will only be able to access the Aspect Style menu when viewing a 4:3-480i or 480P. When viewing a 16:9-1080i or 720P input you will not be able to access this menu. FULL mode will be automatically selected
4. If COMPONENT COLOR TYPE is set improperly (does not match actual input signal), the color and tint of the main picture will be abnormal.
5. You must be tuned to VIDEO: 4 or 5 input and have a component hooked up to the Y-P_BP_R input jacks to access this component color type.
6. All component color type settings will affect only color component input you are currently viewing. If you are using both sets of component input jacks, be sure to set the component color type feature for both inputs.
7. Adjustable range of V. Position is -20 to +20 when receiving 480P picture.
8. When 1080i signal is input, Video Display menu will not be accessible.

PICTURE FORMATS Depending on the input signal, the picture format aspect ration allows you to adjust the image through the following options.

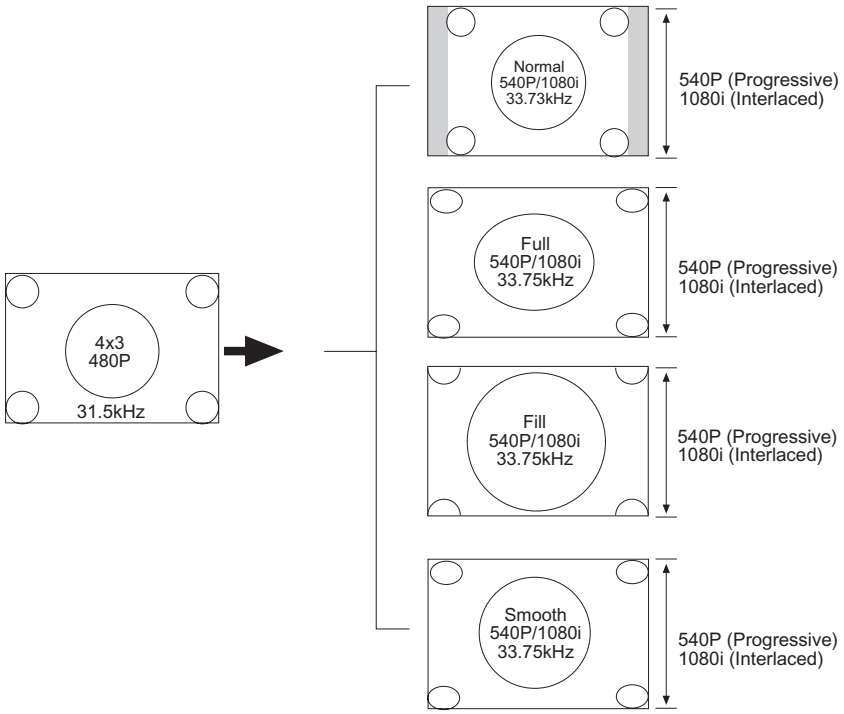
(1) NTSC/SDTV: 480i 4x3 (15.75kHz) ➔ 540P 16x9 (33.75kHz)
Screen Format: Normal, Full, Fill, Smooth



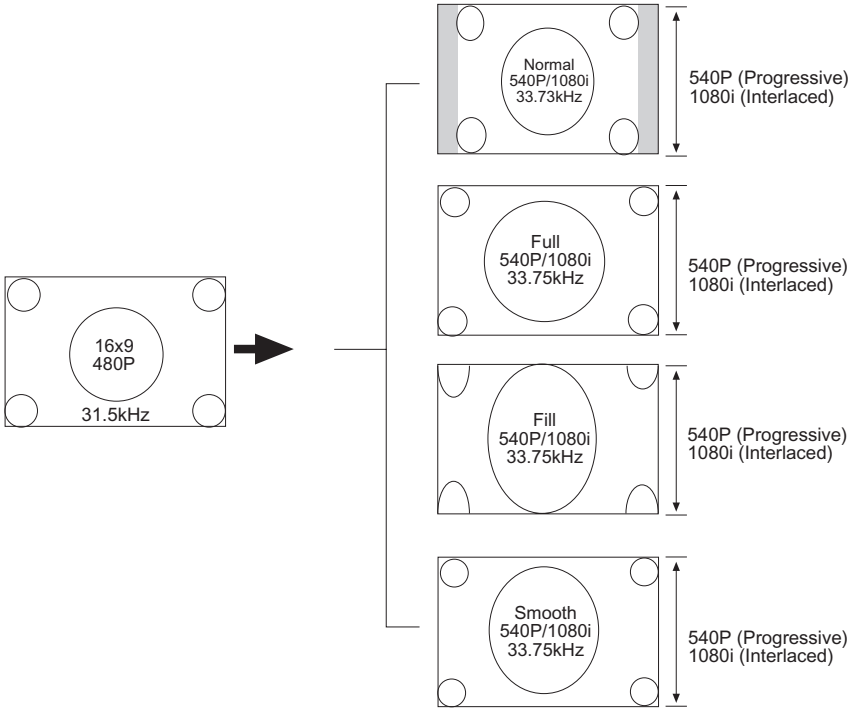
(2) SDTV: 480i 16x9 (15.75kHz) ➔ 540P 16x9 (33.75kHz)
Screen Format: Normal, Full, Fill, Smooth



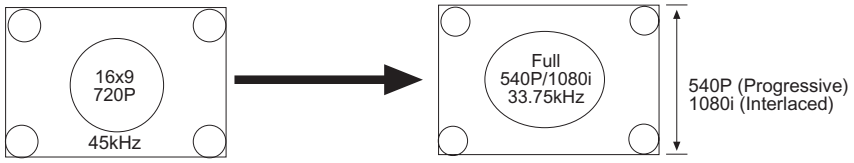
(3) SDTV: 480P 4x3 (31.5kHz) ➔ 540P/1080i 16x9 (33.75kHz)
Screen Format: Normal, Full, Fill, Smooth



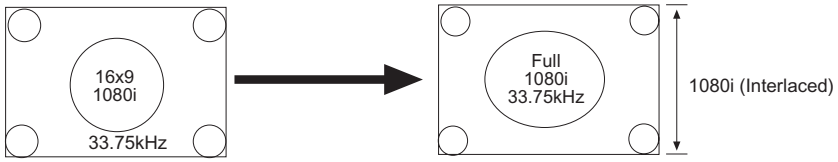
(4) SDTV: 480i 16x9 (15.75kHz) ➔ 540P 16x9 (33.75kHz)
Screen Format: Normal, Full, Fill, Smooth



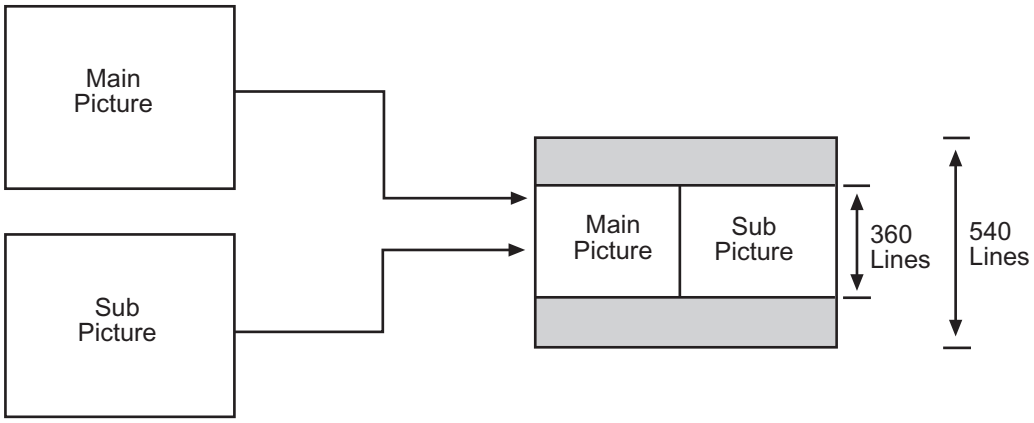
(5) HDTV: 720P 16x9 (45kHz) ➔ 540P/1080i 16x9 (33.75kHz)
Screen Format: Full Only



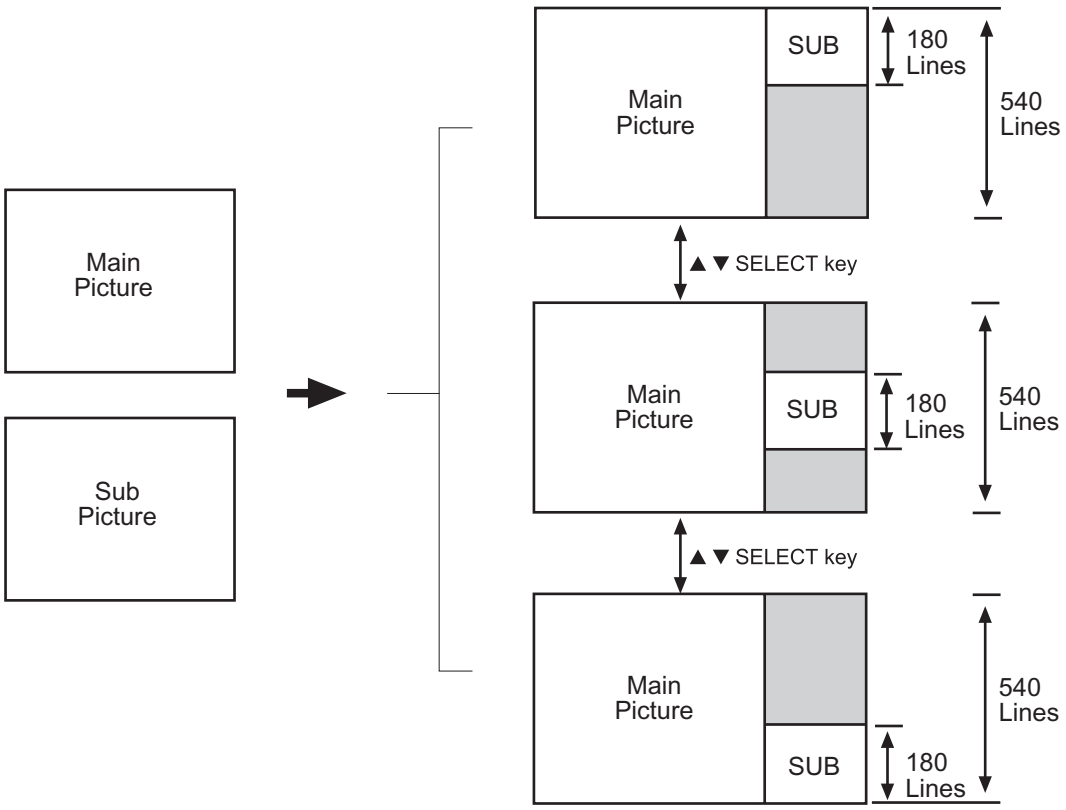
(6) HDTV: 1080i 16x9 (33.75kHz) ➔ 1080i 16x9 (33.75kHz)
Screen Format: Full Only



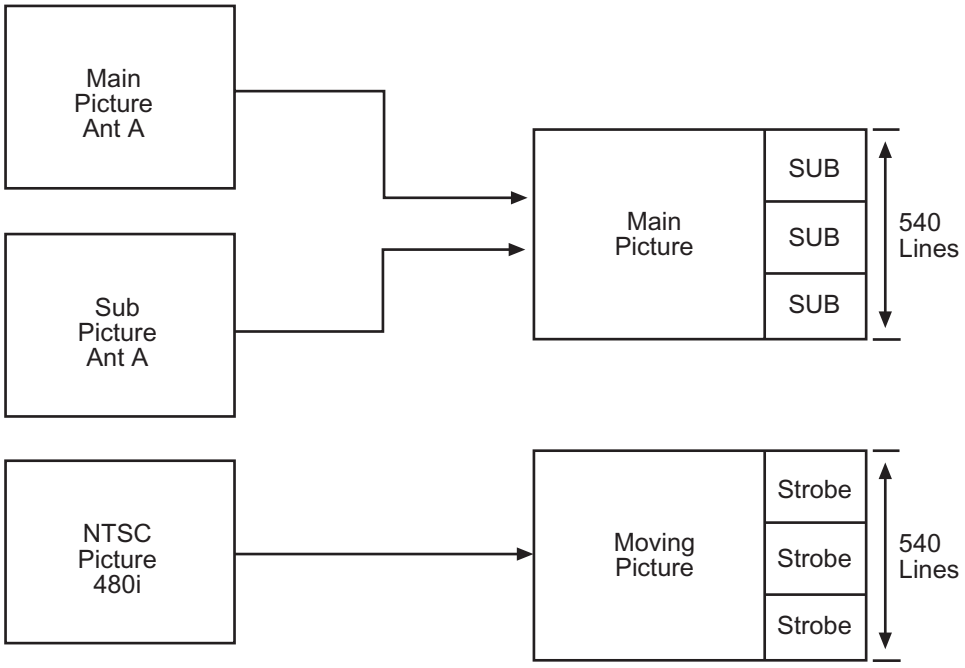
(7) PIP Split Mode All Signal ➔ 540P 4x3 (33.75kHz)



(8) PIP Single Mode



(9) PIP Surf/Strobe Mode



SERVICE ADJUSTMENTS

TO GO TO AN ADJUSTMENT, CLICK ON ITS HEADING

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***IMPORTANT**

For many of the above adjustments, it is necessary to have an HDTV (1080i or 720P) signal generator, SDTV (480P) signal generator, as well as the usual NTSC (480i) signal generator.

Hitachi recognizes that few companies offer HDTV or SDTV signal generators and that the cost of these generators is sometimes prohibitive. For this reason, we suggest the use of a set-top-box for HDTV and SDTV adjustments. Usually, there is a switch on the set-top-box which enables it to output HDTV (1080i or 720P) or SDTV (480P) signals even with no input. In this case, the sync is automatically detected by the TV (at the Y-P_BP_R Inputs on the rear panel).

1. ASSEMBLED P.W.B. ADJUSTMENT

1.1 Service Menu Access

Adjustment Procedure

(1) Press and hold INPUT key on Control Panel and then press POWER key on control panel to access I²C adjustment mode.

(2) Receive signal on main picture. (NTSC, SDTV or HDTV).
Some menu pages have I²C adjustments for SDTV and HDTV. The set will automatically allow you to set these items only when a SDTV or HDTV signal is input to the COMPONENT jacks on the back of the TV. See table below.

(3) Check the OSD according to table on pages 31~37, using THUMB STICK ▲, ▼ on Remote Control.
*: Adjustable Data
Others: Fixed Data (be careful not to change)

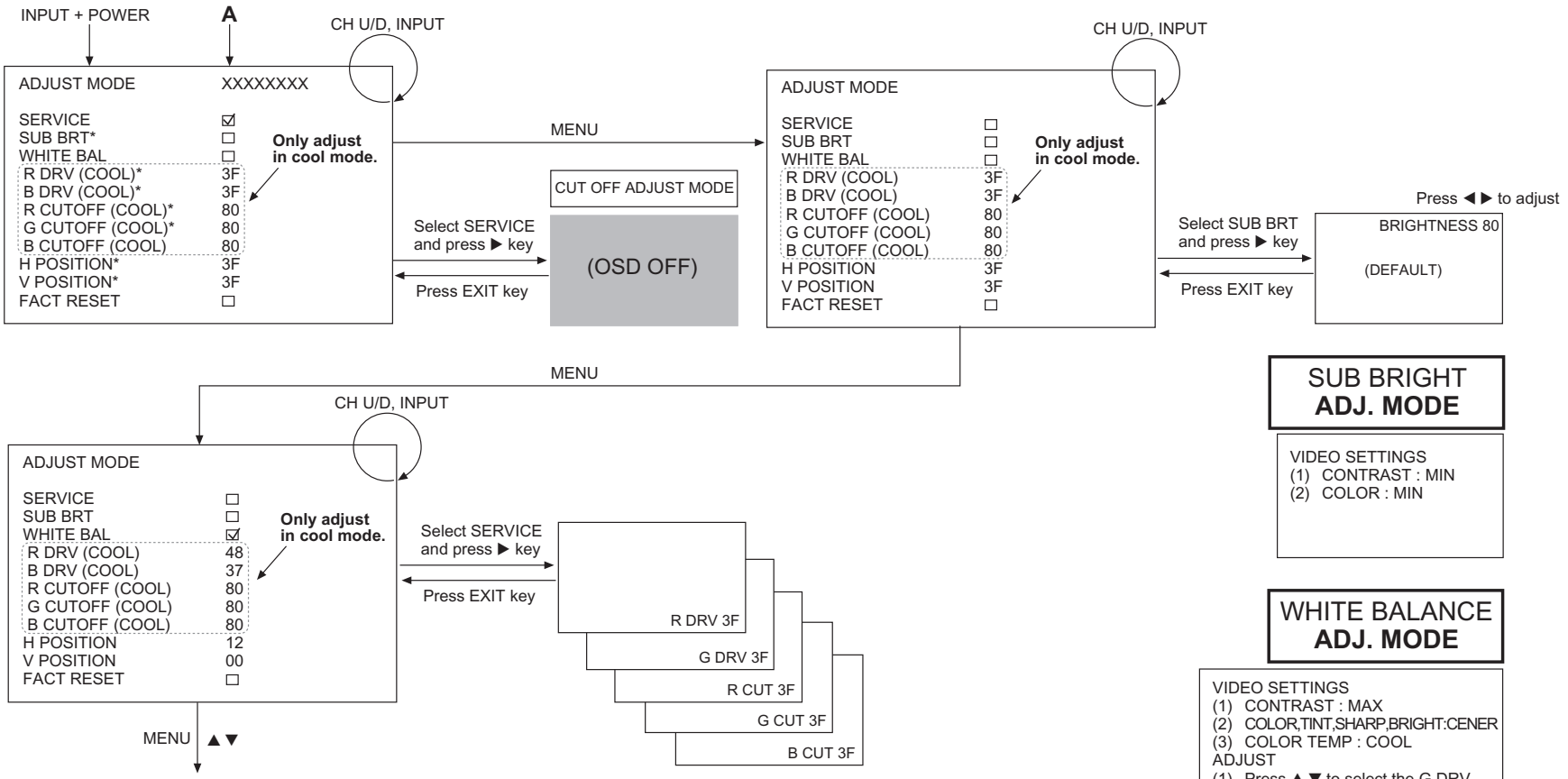
(4) Press EXIT key to exit I²C ADJUST mode.

NOTE: (1) If the TV I²C data is different from the I²C Parameter (pages 31~37) for fixed data, change the data.
(2) When exchanging microprocessor or EEPROM and TV is turned on for first time, it requires initialization of Memory Initial of I²C adjustment menu.
(3) Use FACTORY RESET to set TV to out of factory shipping conditions: Do not use MEMORY INITIALIZE.

BACK TO ADJUSTMENTS

1.2 I²C Parameter List

(1) Adjust Mode OSD
Press INPUT + POWER
of control panel.



SUB BRIGHT **ADJ. MODE**

VIDEO SETTINGS
(1) CONTRAST : MIN
(2) COLOR : MIN

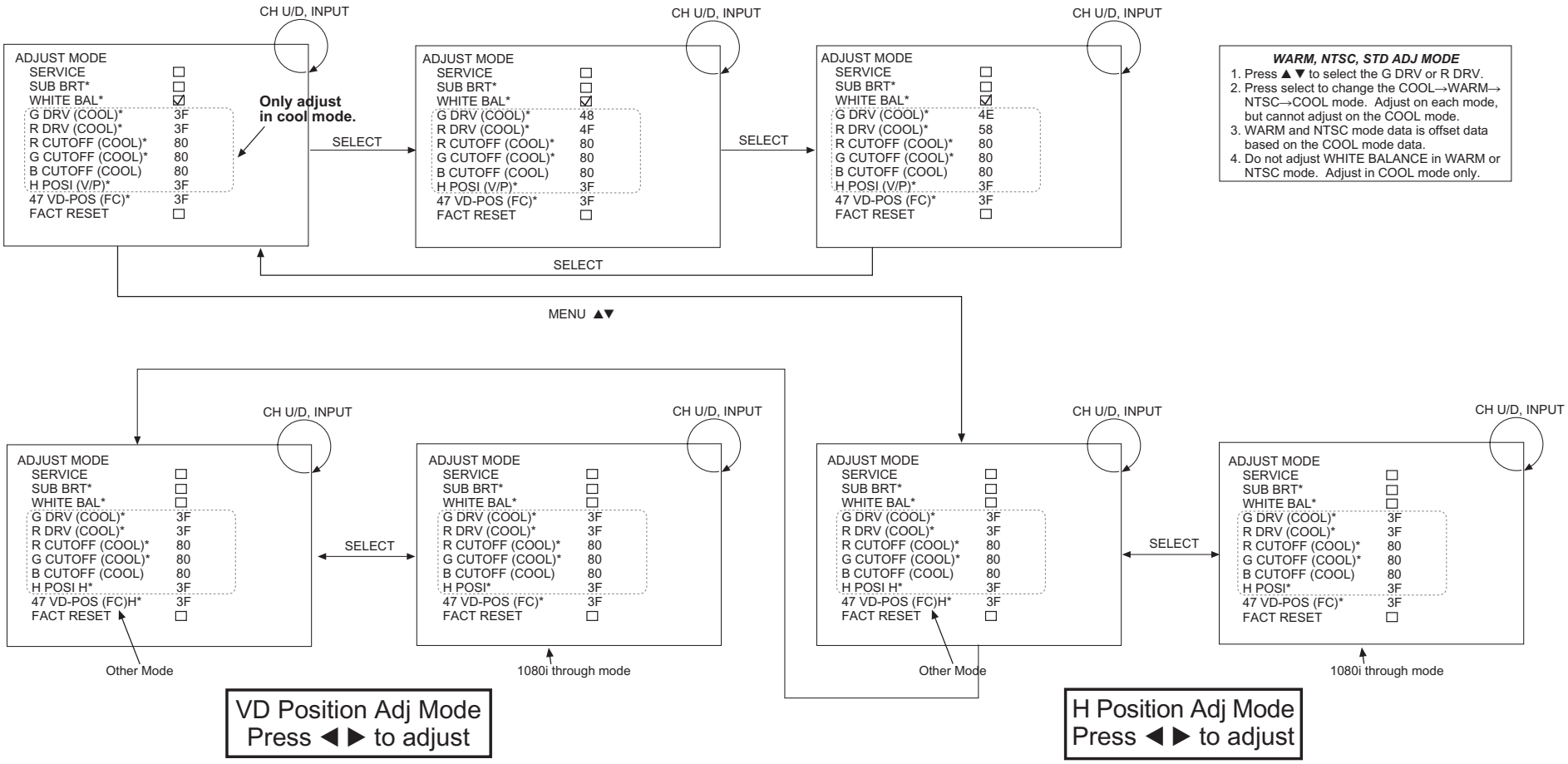
WHITE BALANCE **ADJ. MODE**

VIDEO SETTINGS
(1) CONTRAST : MAX
(2) COLOR,TINT,SHARP,BRIGHT:CENER
(3) COLOR TEMP : COOL
ADJUST
(1) Press ▲▼ to select the G DRV., R DRV., R CUT, G CUT, B CUT. (Initial position G/B DRV). G/B DRV, B/R DRV select by the DR R and DR BG.
(2) Press ◀ ▶ to adjust.

***: Adjustable data**
others: Fixed data (be careful not to change)
:B CUTOFF (Cool) data should be fixed.

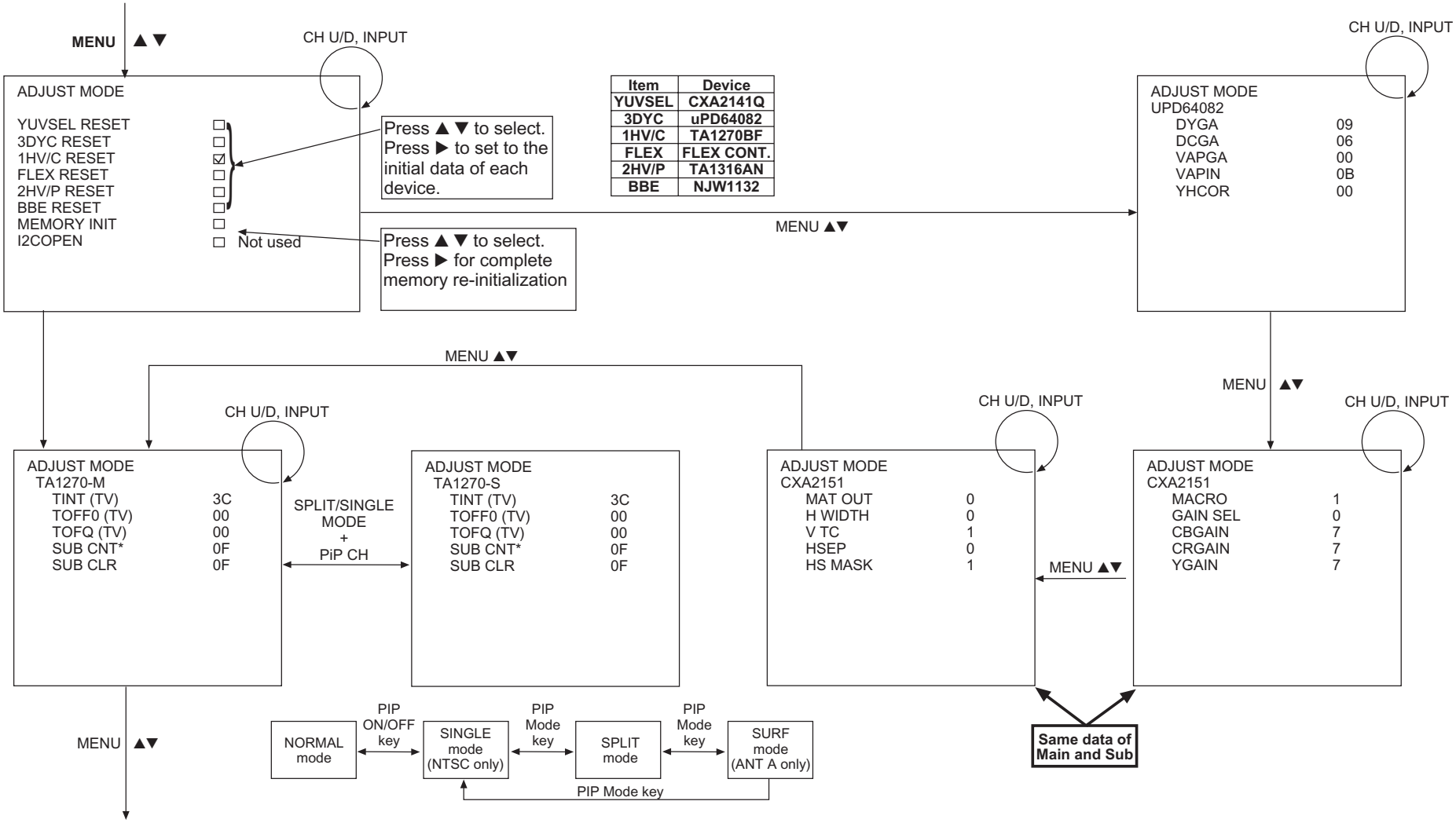
BACK TO ADJUSTMENTS

1.2 I²C Parameter List Cont.


CH U/D, INPUT
ADJUST MODE
SERVICE ☐
SUB BRT* ☐
WHITE BAL* ☑
G DRV (COOL)* 3F
R DRV (COOL)* 3F
R CUTOFF (COOL)* 80
G CUTOFF (COOL)* 80
B CUTOFF (COOL) 80
H POSI (V/P)* 3F
47 VD-POS (FC)* 3F
FACT RESET ☐
Only adjust in cool mode.
SELECT
G DRV (COOL)* 48
R DRV (COOL)* 4F
R CUTOFF (COOL)* 80
G CUTOFF (COOL)* 80
B CUTOFF (COOL) 80
H POSI (V/P)* 3F
47 VD-POS (FC)* 3F
G DRV (COOL)* 4E
R DRV (COOL)* 58
R CUTOFF (COOL)* 80
G CUTOFF (COOL)* 80
B CUTOFF (COOL) 80
H POSI (V/P)* 3F
47 VD-POS (FC)* 3F
MENU ▲▼
WARM, NTSC, STD ADJ MODE
1. Press ▲▼ to select the G DRV or R DRV.
2. Press select to change the COOL→WARM→ NTSC→COOL mode. Adjust on each mode, but cannot adjust on the COOL mode.
3. WARM and NTSC mode data is offset data based on the COOL mode data.
4. Do not adjust WHITE BALANCE in WARM or NTSC mode. Adjust in COOL mode only.
H POSI H* 3F
47 VD-POS (FC)H* 3F
H POSI* 3F
Other Mode
1080i through mode
VD Position Adj Mode
Press ◀ ▶ to adjust
H Position Adj Mode
Press ◀ ▶ to adjust

BACK TO ADJUSTMENTS

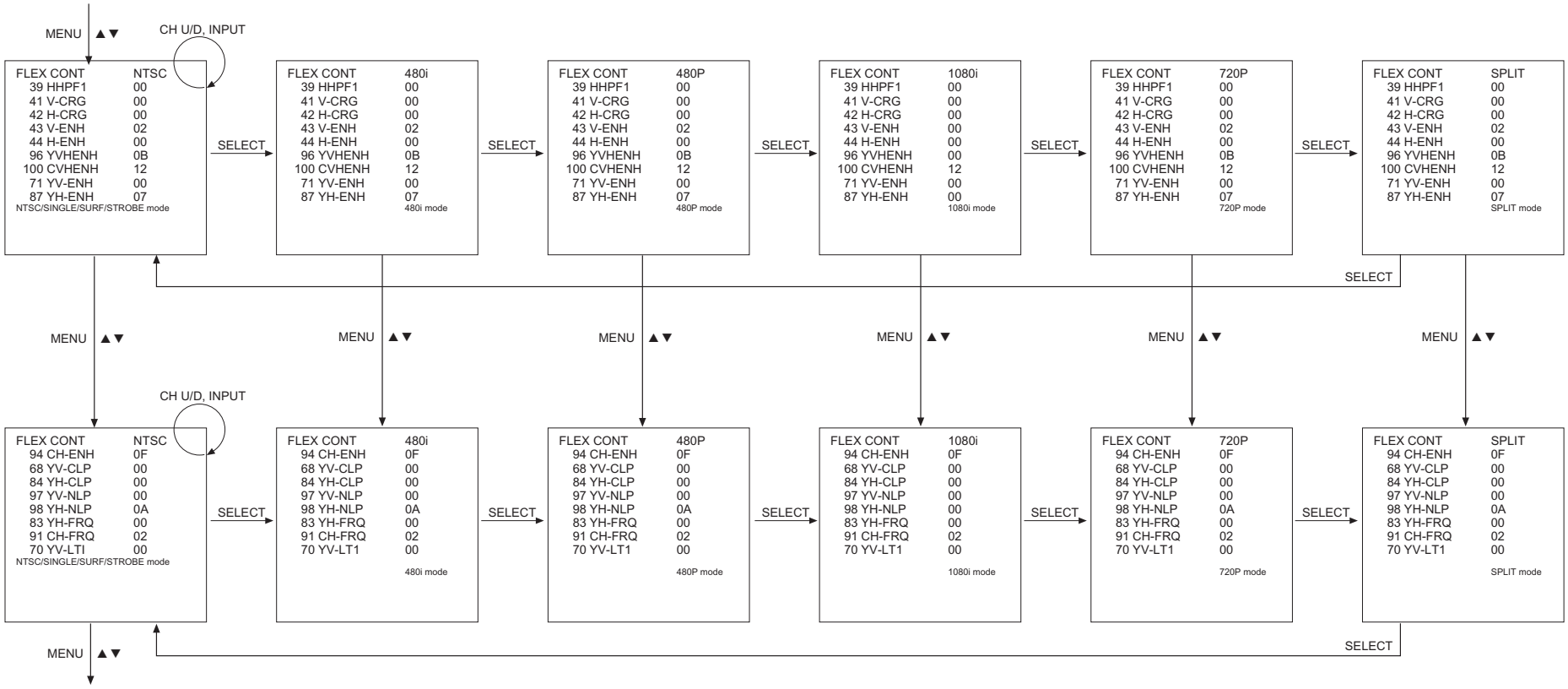
1.2 I²C Parameter List Cont.



NOTE: Memory Init. will reset all devices and factory settings. Use factory reset from previous page to restore unit to factory settings condition.

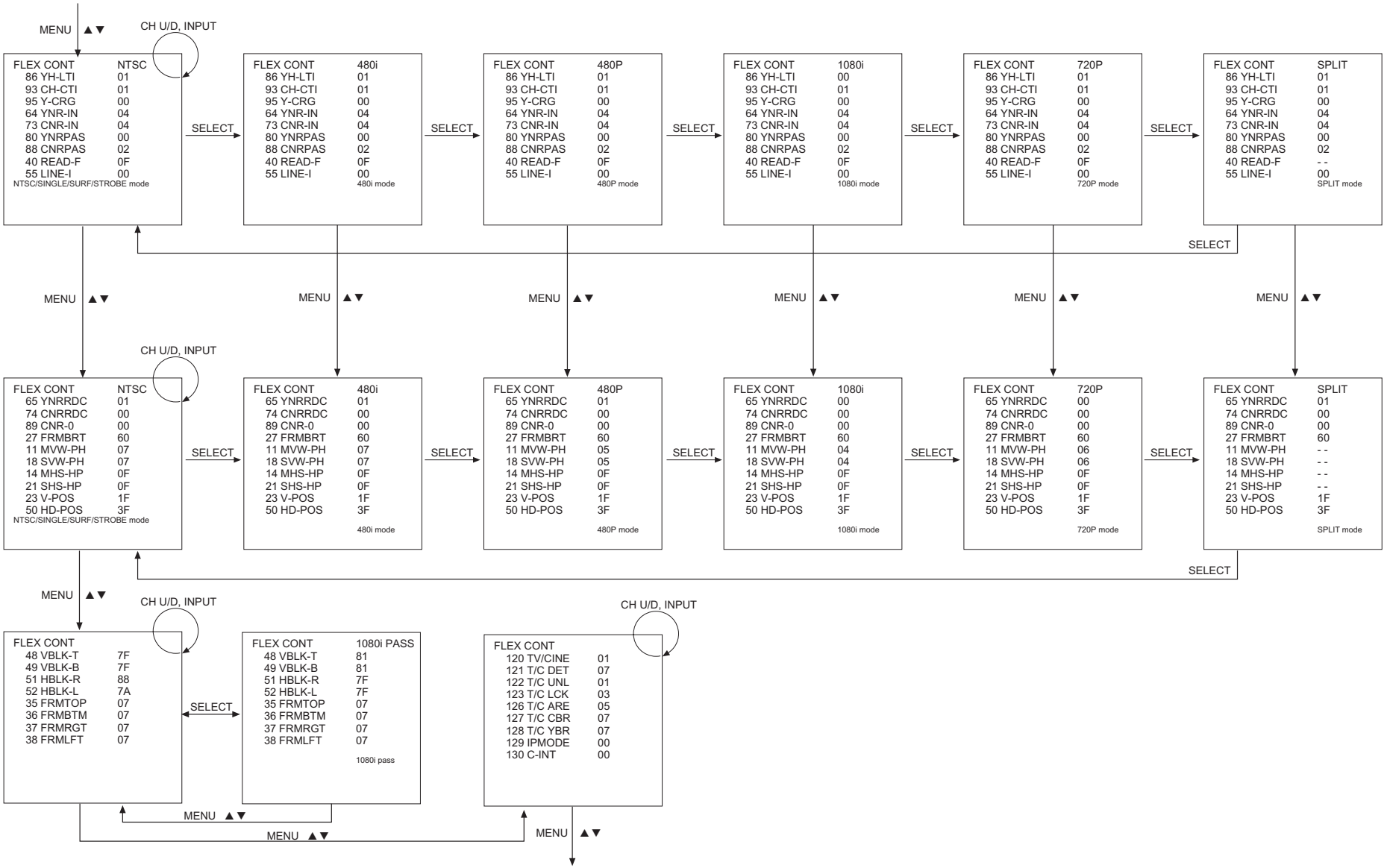
BACK TO ADJUSTMENTS

1.2 I²C Parameter List Cont.



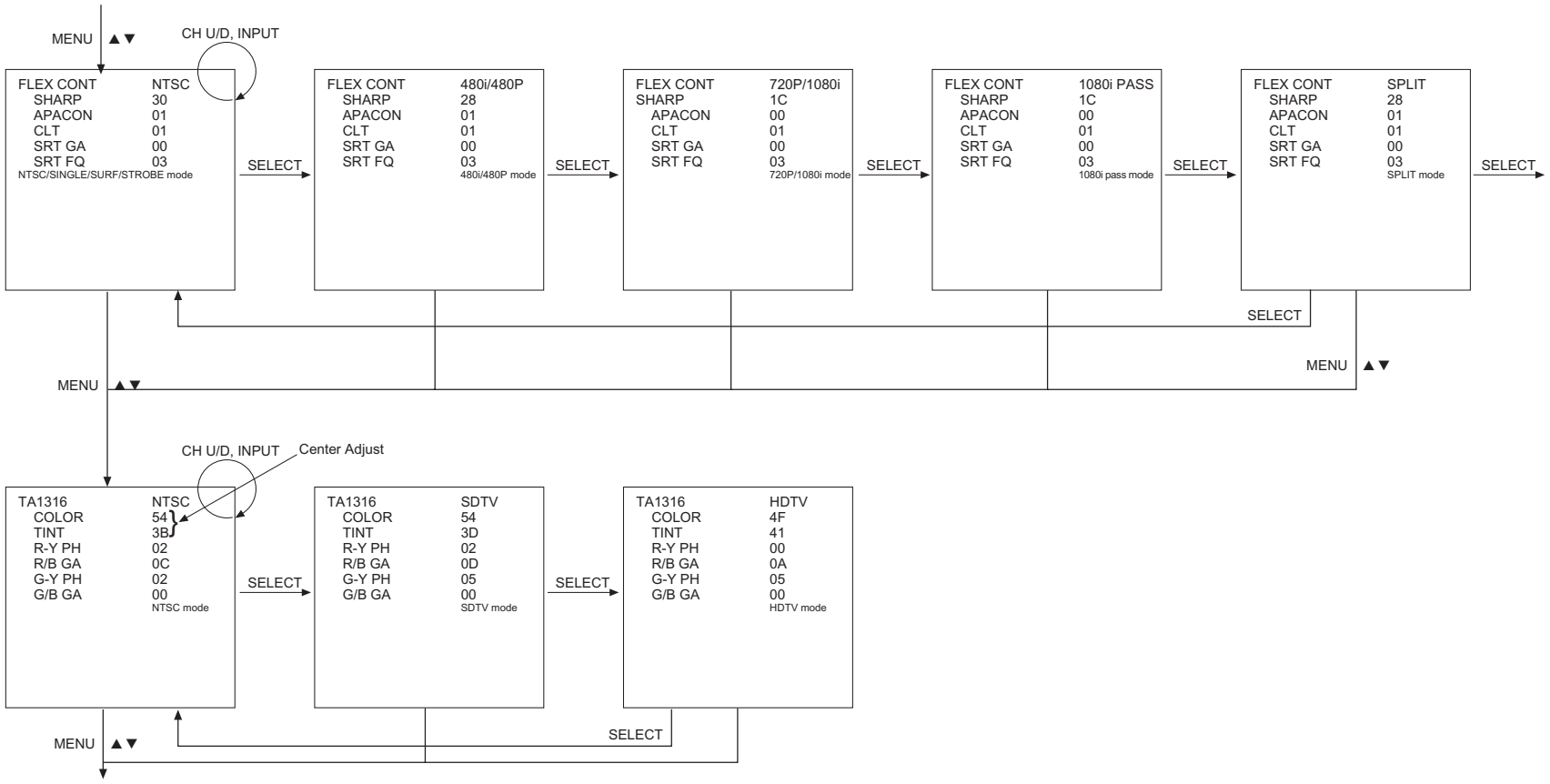
BACK TO ADJUSTMENTS

1.2 I²C Parameter List Cont.



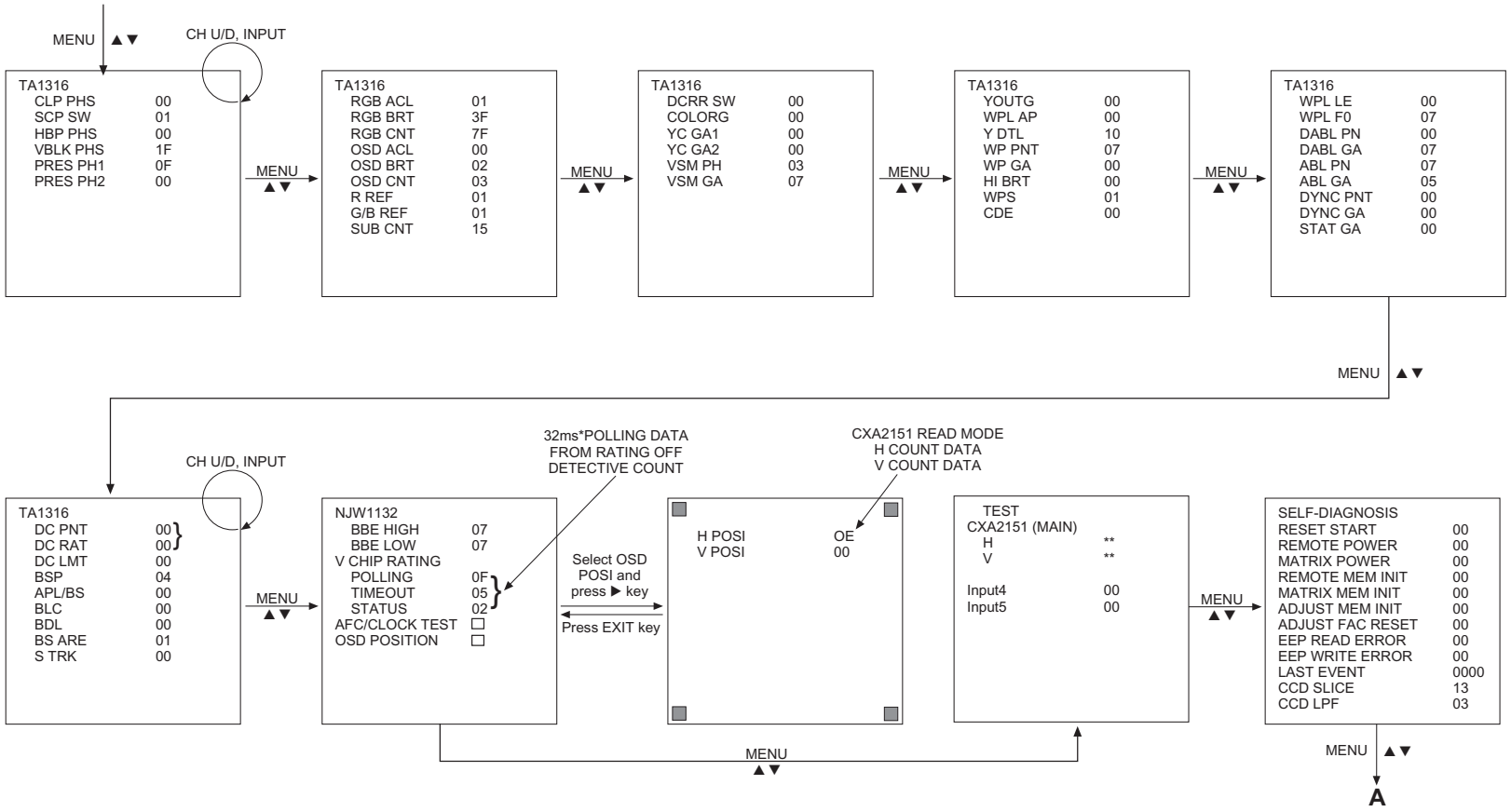
BACK TO ADJUSTMENTS

1.2 I²C Parameter List Cont.



BACK TO ADJUSTMENTS

1.2 I²C Parameter List Cont.



BACK TO ADJUSTMENTS

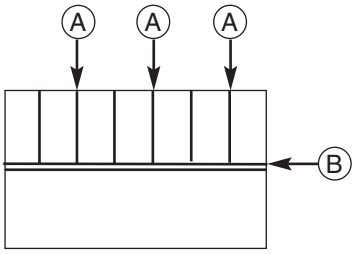
1.2 Comb filter operation check

Adjustment preparation

(1) Receive the color bar signal at the regular tuning point.
(2) Set the CONTRAST control to MAX and the other controls to center.
(3) Set the PERFECT PICTURE to OFF.

Adjustment procedure

(1) Check that between the color bars there are line dots every second color bar as shown in the drawing.



Check (A) and (B) line dots.

LINE	DOT
(A)	X
(B)	X

1.3 Video Settings (Advanced Settings)

1.3.1 Perfect Picture Check

(1) Receive the color bar signal.
(2) Select video mode by THUMB STICK cursor.
(3) Use THUMB STICK ▼ to highlight advanced settings and then press THUMB STICK ▶ to enter Advanced Settings Mode.
(4) Select Perfect Picture by pressing THUMB STICK ▼.
(5) Check that the display becomes dark when the light sensor QM002 (light detect transistor on the control P.W.B.) is covered with hands.
(6) Set Perfect Picture to OFF by pressing select button and check that contrast of the display returns to normal.

1.3.2 Auto Color Check

(1) Set to the color control to MAX.
(2) Select Auto Color.
(3) Set Auto Color: OFF by pressing select button and check the red part of color bar signal grows deeper.
(4) Retrun to Auto Color: ON by pressing select button.
(5) Retrun the color control to center.

1.3.3 Noise Reduction Check

(1) Receive the color bar signal.
(2) Select noise reduction.
(3) Check that the noise in the picture is reduced.

1.3.4 Color Temperature Check

(1) Receive Circle pattern signal.
(2) Select COLOR TEMPERATURE.
(3) Check that the picture is reddish when set to WARM and bluish when set to COOL.

1.3.5 Velocity Modulation Check

(1) Select VELOCITY MODULATION.
(2) Check that the edge of the vertical line of the picture is thicker.

1.3.6 Black Level Expansion Check

(1) Select BLACK LEVEL EXPANSION.
(2) Check that the Black Level is sink at black portion of picture.

BACK TO ADJUSTMENTS

Important: High Voltage adjustment should NOT be adjusted in field. This is adjusted at factory using precise loads and should NOT be readjusted.

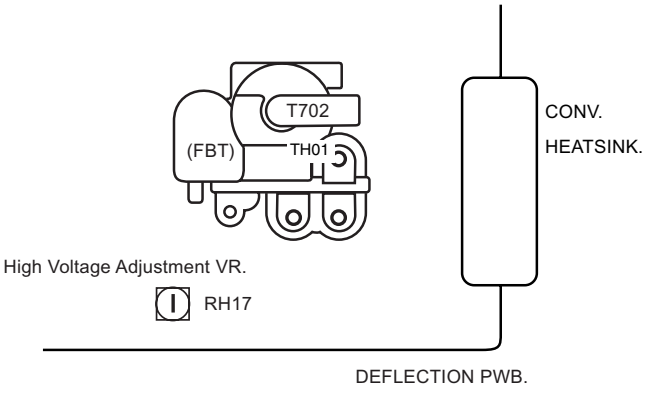
1.4 High Voltage Adjustment (should NOT be readjusted in field).

Adjustment preparation

(1) Connect High Voltage meter to FBT High Voltage output. Connect GND of High Voltage meter to CPT GND or FBT GND.
(2) Check that High Voltage adjustment VR (RH17) is set to mechanical center. (located behind FBT on DEFLECTION PWB).
(3) Receive circle pattern signal.
(4) VIDEO control should be reset.

Adjustment procedure

(1) Adjust High Voltage to following spec. by turning VR RH17 slowly. ADJ. SPEC = 31.7±0.2kV(DP17),
= 30.2±0.2kv(DP14G).
(2) After adjustment, fix VR RH17 with Silicone glue (KE40RTV).



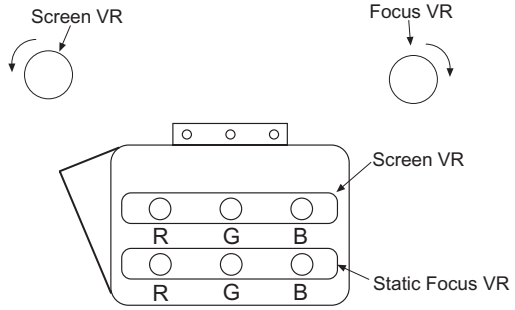
2. FINAL ASSEMBLY ADJUSTMENT

2.1 Cut Off Adjustment

Adjustment preparation

(1) Adjust screen VR s on Focus Pack fully counterclockwise.
(2) Adjust Focus VR s on Focus Pack fully clockwise.
(3) Set video conditions to factory preset.
(4) The vertical incident illumination on the screen should be 20 lux or less (room should be dark).

FOCUS PACK



Adjustment procedure

(1) Press and hold INPUT key on control panel and then POWER ON to access I²C adjustment mode.
(2) Choose “SERVICE” item from I²C adjustment menu by pressing THUMB STICK ▶.
(3) Screen VR should be turned clockwise gradually and set so that retrace line begins to appear.
(4) Return to “NORMAL” mode by THUMB STICK ◀ again.
(5) Adjust Focus VR’s so that focus is even all around screen.

2.2 DCU Phase Data Setting

Adjustment preparation

(1) Cut off adjustment should be finished.
(2) Set video conditions to factory preset.

Adjustment procedure

(1) Receive any NTSC signal.
(2) Push “SERVICE ONLY” SW on CONV. FOCUS PWB. (Enter to DCU ADJ. mode).
(3) Push HELP key on R/C. (Green cross hatch is displayed).
Then push EXIT key on R/C. (Character pattern is displayed. This is the PHASE setting mode).
(4) Set PH-H phase data as shown below by using 4 and 6 key on R/C.
(5) Set PH-V phase data as shown below by using 2 and 5 key on R/C.
(6) Set CR-H phase data as shown below by using THUMB STICK ◀ and ▶ key on R/C.
(7) Set CR-V phase data as shown below by using THUMB STICK▲ and ▼ key on R/C.
(8) Push HELP key on R/C to exit from the PHASE mode.
(9) Push PIP MODE key 2 times on R/C to write the phase data to memory.
(10) When Green dots are displayed, push MUTE key to return to DCU ADJ. mode.
(11) Push “SERVICE ONLY” SW to return to RF or VIDEO mode.

PHASE MODE
PH-H :BF
PH-V: 07
CR-H: 4C
CR-V: 0C

BACK TO ADJUSTMENTS

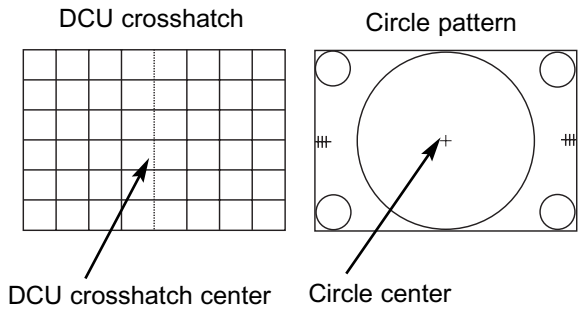
2.3 Horiontal Position Adjustment (Coarse)

Adjustment preparation

(1) DCU PHASE DATA SETTING should be finished.

Adjustment procedure

(1) Receive circle pattern (03ch.)
(2) Push SERVICE ONLY switch to display DCU crosshatch. Mark the DCU crosshatch center position using your finger tip.
(3) Push SERVICE ONLY switch again to exit from the DCU crosshatch.
(4) Go to I²C ADJ. mode.
(5) Choose H. POSI item by using R/C MENU (or up/down cursor) key. Adjust horizontal position to match the circle center to DCU crosshatch center (marked by your finger tip).
(6) Exit from I²C menu.



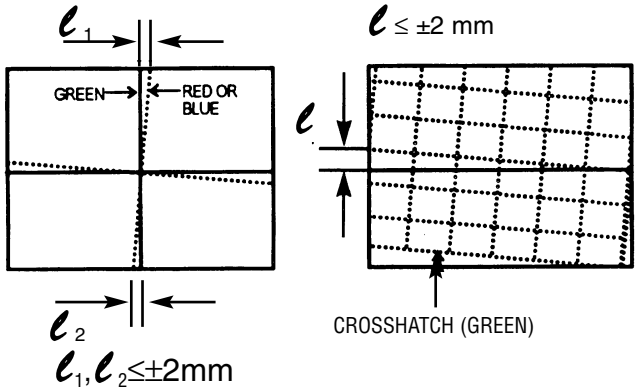
2.4 Raster Tilt adjustment (Deflection yoke)

Adjustment preparation

(1) The set can face east or west.
(2) Input the single cross test signal.
(3) Set video conditions to factory preset.
(4) The lens focus and horizontal position adjustment should have been coarse adjusted.
(5) The electrical focus should have been coarse adjusted.
(6) The digital convergence RAM should be cleared (uncorrected state). With the TV set off, press and hold the service switch located on the Power/Deflection PWB and then press the power button.
(7) Start adjustment 20 minutes or more after TV is turned on.

Adjustment procedure

(1) Short-circuit 2P (TS) sub-mini connectors on Red and Blue CPT P.W.B.s to project only the Green beam.
(2) Turn the G deflection yoke and adjust the vertical raster inclination.
(3) Then, remove the shorted wire on the 2P(TS) sub-mini connectors on the R or B CPT PWB and project red or blue light and green light together on screen.
(4) Turn the deflection yoke of R or B and set so that the inclination of R or B light with respect to the green light is as shown below on the top and bottom sides.
(5) After raster inclination adjustment, fixing screw of DY should be screwed with 12±2kg-cm torque.



Notes: (1) If internal cross-hatch does not appear after clearing RAM data, press service switch again, on POWER/DEFLECTION PWB.
(2) To resotre old RAM data, turn TV off and on.

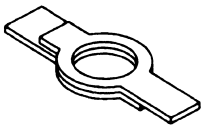
2.5 Beam alignment

Adjustment preparation

(1) Adjust at least 30 minutes after turning on power switch.
(2) Raster tilt should be completed. Raster position, horizontal and vertical size, and optical focus adjustment should be coarse adjusted.
(3) Set video conditions to factory preset.
(4) Receive cross-hatch signal.

Adjustment procedure

(1) Green (G) tube beam alignment adjustment. Short-circuit 2P subminiature connector plug pins of Red (R) and Blue (B) on the CPT boards and project only Green (G) light or you may cover the R and B lens.
(2) Put Green (G) tube beam alignment magnet to the cancel state as shown below.



(3) Turn the Green (G) static focus (Focus Pack) counterclockwise all the way and make sure of position of cross-hatch center on screen. (Halo state.)
(4) Turn the Green (G) static focus (Focus Pack) clockwise all the way. (Blooming state.)
(5) Turn two magnets forming alignment magnet in any desired direction and move cross-hatch center to position found in (3).
(6) If image position does not shift when Green (G) static focus (Focus Pack) is turned. Green (G) beam alignment has been completed.
(7) If image position shifts when Green (G) static focus (Focus Pack) is turned, repeat (2)-(6).
(8) Conduct beam alignment for red (R) and Blue (B) focus: Focus Pack UFPK.
(9) Upon completion of adjustment, fix beam alignment magnets with white paint.

BACK TO ADJUSTMENTS

2.6 Raster position adjustment

Adjustment preparation

(1) The set can face east or west.
(2) Input the single cross test signal.
(3) Set video conditions to factory preset.
(4) The electric focus should have been coarse adjusted.
(5) The digital convergence RAM should be cleared (uncorrected state). With the TV set off, press and hold the service switch located on the Power/Deflection PWB and then press the power button.
(6) Start adjustment 20 minutes or more after TV is turned on.

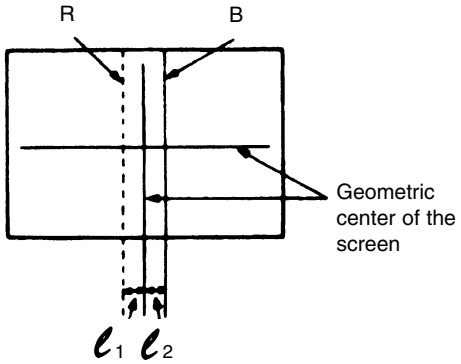
Adjustment procedure

(1) Turn the centering magnets for red, green, and blue to satisfy the condition below. The red and blue horizontal lines should match with green.

	ℓ_1 (RED)	ℓ_2 (BLUE)
43	25	30
53	20	25
61	15	25

Tolerance: ± 2mm

Units = millimeters
25.4mm = 1in.



(2) Upon completion of adjustment, fix centering magnets with white paint.

NOTES: (1) If internal cross-hatch does not appear after clearing RAM data, press service switch again.
(2) To restore old RAM data, turn TV off and on.

2.7 Vertical size adjustment

BACK TO ADJUSTMENTS

Adjustment preparation

(1) The set can face east or west.
(2) Set video conditions to factory preset.
(3) The electric focus should have been coarse adjusted.
(4) Start adjustment 20 minutes or more after TV is turned on.

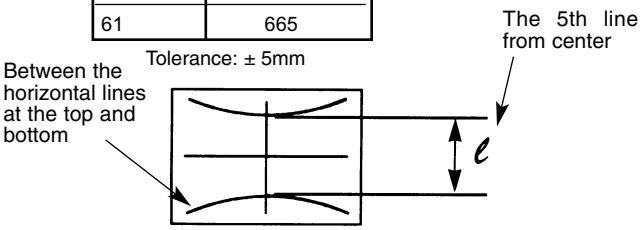
Adjustment procedure

(1) Receive any NTSC signal.
(2) Press the SERVICE ONLY SW on CONVERGENCE FOCUS PWB and POWER to display DCU uncorrected convergence data.
(3) Locate the vertical size VR (R607) on DEFLECTION PWB. Adjust the vertical size according to the following table.

ℓ =	NORMAL MODE
43	470
53	580
61	665

Tolerance: ± 5mm

Units = millimeters
25.4mm = 1in.



Notes:(1) If internal cross-hatch does not appear after clearing RAM data, press service switch again (on POWER/DEFLECTION PWB).
(2) To restore old RAM data, turn TV off and on.
(3) V-Size is only done in NORMAL mode (NTSC).

2.8 Horizontal size adjustment

Adjustment preparation

(1) The set can face east or west.
(2) Set video conditions to factory preset.
(3) The electric focus should have been coarse adjusted.
(4) Start adjustment 20 minutes or more after TV is turned on.

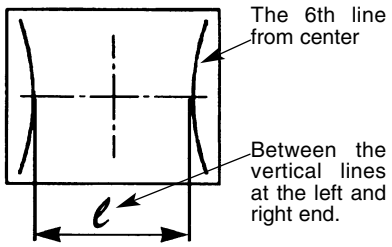
Adjustment procedure

(1) Receive any NTSC signal.
(2) Press the SERVICE ONLY SW on CONVERGENCE/FOCUS PWB and POWER to display DCU unceorrected converge data.
(3) Locate the horizontal size VR (R711 on POWER/DEF PWB). Adjust horizontal size to the table below.

ℓ =	NORMAL MODE
43	880
53	1060
61	1250

Tolerance: ± 5mm

Units = millimeters
25.4mm = 1in.



Notes: (1) Once Normal mode Horizontal size adj. is done. To restore old RAM data, turn TV off and on.
(2) After adjustment, press SERVICE ONLY switch to exit DCU crosshatch.
(3) H. SIZE adjustment is only done in NORMAL MODE (NTSC).

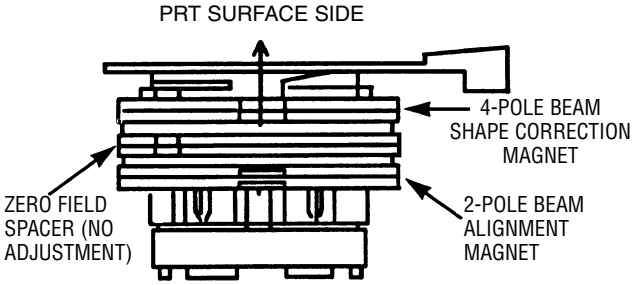
2.9 Beam form adjustment

Adjustment preparation

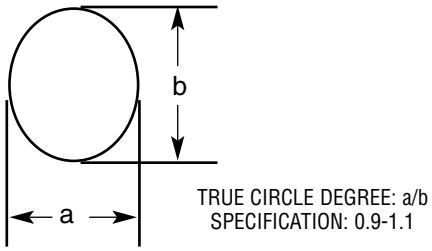
(1) The beam alignment should have been completed.
(2) The raster tilt, centering, horizontal/vertical size, scanning area check, and raster distortion should have been completed.
(3) Set video conditions to factory preset.
(4) Input the dot signal.

Adjustment procedure

(1) Green PRT beam shape adjustment. Short-circuit 2P (TS) sub-mini connectors on Red and Blue CPT P.W.B.s to project only the Green beam.
(2) Turn the green static focus VR, on the Focus Pack, fully clockwise. (Blooming)
(3) Make the dot at the screen center a true circle using the 4-pole magnet as shown below.
(4) Also adjust the Red and Blue PRT beam shapes according to the steps (1) to (3).
(5) After the adjustment has been completed, return R, G and B static VRs to the just focus point.



TRUE CIRCLE SPECIFICATION



2.10 LENS FOCUS ADJUSTMENT

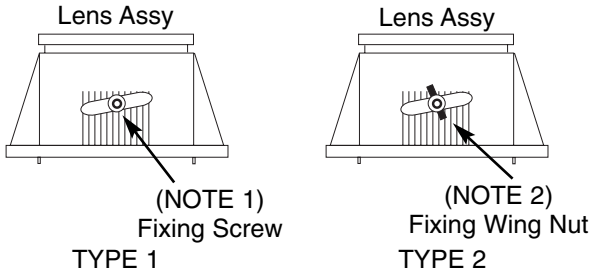
Adjustment preparation

(1) The orientation of PTV set is arbitrary, west, east, north and south.
(2) Centering DY inclination should have been adjusted.
(3) Electrical focus adjustment should have been completed.
(4) Drive VR location adjustment should have been completed. (Red : 12 O clock, Green : 1~2 O clock).
(5) Receive the cross-hatch pattern signal.
(6) Refer to setup below.
CONTRAST : HALF of full scale.
BRIGHTNESS : minimum

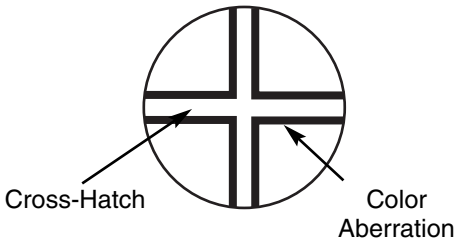
Adjustment procedure

(1) Loosen the fixing screw or wing nut on the lens cylinder so that the lens cylinder can be turned. (Be careful not to loosen too much). After completing steps (4), (5), (6) below, tighten the fixing screws or wing nuts for each lens with a torque of 1.18N.m (12Kgf cm) ~ 1.67N.m (17Kgf cm).

(Be careful the lens cylinder does not turn after having tightened the screw or wing nuts. If it is tightened too much, lens may tilt or screw may break.)

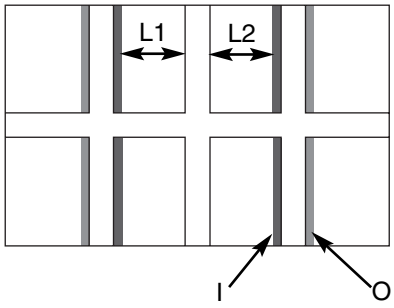


(2) Apply covers to each color of R, G and B lenses. And project a single color on the screen and adjust in sequence. (The adjustment order of G, R and B is only an example.)
(3) If the lens adjustment knob is turned clockwise viewed from the front, the color Aberration change as follows.



	Change of Color Aberration	
	Short focus	Long focus
RED LENS	Orange	Scarlet
GREEN LENS	Blue	Red
BLUE LENS	Purple	Green

(4) In case of G lens. Set to the point where the chromatic aberration switches from blue to red. If the chromatic aberration appearing all over the screen is not the same, observe the vertical bright line and adjust lens focus as specified in table below. When the red chromatic aberration appearing at both sides of the bright line is not equal, observe the side with larger chromatic aberration when adjusting.



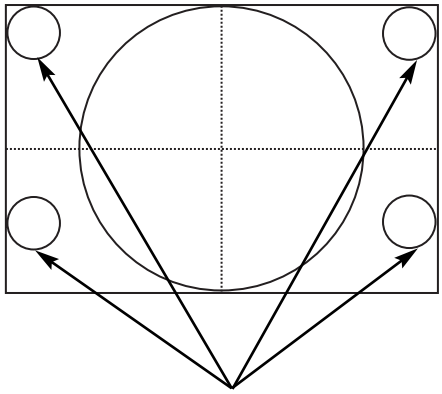
BACK TO ADJUSTMENTS

OPTICAL FOCUSING ADJUSTMENT GREEN

CHASSIS		DP17		DP14G		
SCREEN SIZE		61	53	43	53	61
L1 and L2 (PITCHES from CENTER)		0.0	0.0	3.0	3.0	3.0
COLOR ABERRATION	BETWEEN L1&L2	*	**	*	*	*
	I	** 2.5mm MAX	** 2.5mm MAX	* 3.0mm MAX	* 2.5mm MAX	* 2.0mm MAX
	O	** 2.5mm MAX	** 2.5mm MAX	** 3.0mm MAX	* 3.0mm MAX	* 2.0mm MAX

(NOTE) * Slightly reddish or no color
** Slightly reddish or no color

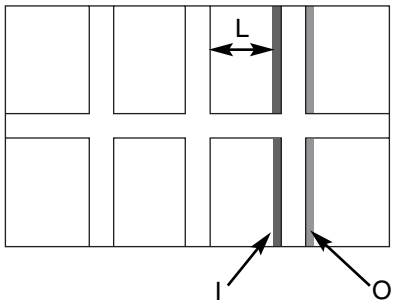
Change the signal to the circle pattern and fine adjust. Observe the corner part of the screen, especially observe number in the small circle when adjusting. If the focus performance at the screen center exceeds the lower limit, it is acceptable.



Small circle of circle pattern

NOTES: 1. Since the G light is very important for picture quality and performance, pay special attention in its adjustment.
2. Be careful not to touch the lens with your fingers when adjusting.

(5) In case of R lens. Set the position where the chromatic aberration changes from red to crimson. As shown below, observe the vertical bright line and adjust lens focus where the crimson or red chromatic aberration slightly appears inside, and crimson or red outside (reference value : 1~4mm) at the point specified in table below. Change the signal and fine-adjust the same way as the G lens.



NOTE: Setting the center between Red and crimson is optimum.

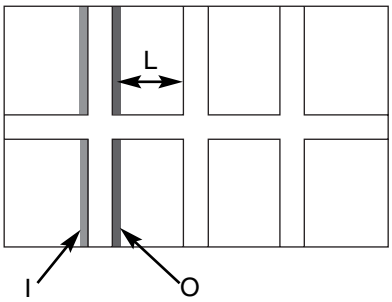
OPTICAL FOCUSING ADJUSTMENT RED

CHASSIS		DP17		DP14G		
SCREEN SIZE		61	53	43	53	61
L1 and L2 (PITCHES from CENTER)		0.0	3.0	3.0	4.0	4.0
COLOR ABERRATION	BETWEEN L1&L2	-	*	*	*	*
	I	* 2.5mm MAX	* 2.5mm MAX	* 3.5mm MAX	* 3.0mm MAX	* 2.0mm MAX
	O	** 2.5mm MAX	** 2.5mm MAX	** 3.5mm MAX	* 3.0mm MAX	* 2.0mm MAX

(NOTE) * Slightly reddish or no color
** Slightly reddish or no color

(6) In case of B lens. Set the position where the chromatic aberration changes from purple to green. As shown below, observe the vertical bright line and adjust lens focus where the purple or green chromatic aberration slightly appears inside and purple or green outside (reference value : 1~4mm) at the point specified in table below. Change the signal and fine-adjust in the same way as the G lens.

BACK TO ADJUSTMENTS



NOTE: Setting to the center between purple and crimson is optimum.

OPTICAL FOCUSING ADJUSTMENT BLUE

CHASSIS		DP17		DP14G		
SCREEN SIZE		61	53	43	53	61
L1 and L2 (PITCHES from CENTER)		0.0	3.0	3.0	4.0	4.0
COLOR ABERRATION	BETWEEN L1&L2	-	*	*	*	*
	I	* 2.5mm MAX	* 2.5mm MAX	* 3.5mm MAX	* 3.0mm MAX	* 2.0mm MAX
	O	* 2.5mm MAX	** 2.5mm MAX	** 3.5mm MAX	* 3.0mm MAX	* 2.0mm MAX

(NOTE) * Slightly reddish or no color
** Slightly reddish or no color

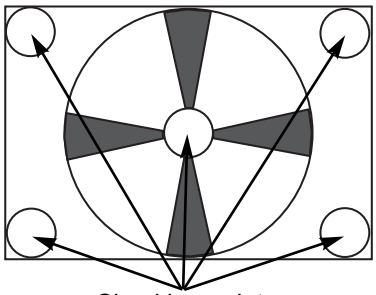
(7) After all colors have been adjusted, display all colors with the cross-hatch pattern signal and check the focus performance.
(8) Then, select the circle pattern signal and check the focus performance of each color and all colors together.
(9) If the focus performance is not acceptable re-adjust step (1) to (6).

2.11 STATIC FOCUS ADJUSTMENT

Adjustment preparation
(1) LENS FOCUS adjustment should be finished.
(2) Contrast : MAX
Brightness : Center.
(3) Receive the circle pattern signal.
(4) Apply covers to the lens of the colors you are not adjusting and project only one color on the screen.

Adjustment procedure
(1) Red and blue static focus adjustment. Adjust the static focus VR on Focus pack (UFPK) so that the center of circle pattern is the most clear. Check that the focus does not get conspicuously worse at the edges of the circle pattern signal or cross-hatch signal.
(2) Green static focus adjustment. Adjust the static focus VR on Focus pack (UFPK) (for green) so that the center of circle pattern is the most clear. Check that the focus does not get conspicuously worse at the checking point, the periphery of circle pattern cross-hatch signal.

NOTE: Checking point for the periphery of picture.



Checking point

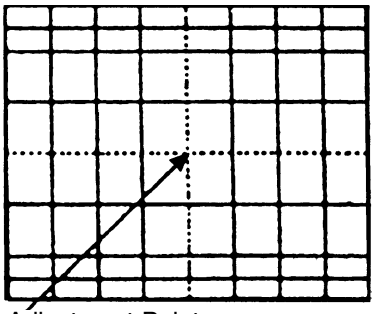
2.12 Digital convergence adjustment

Note: 1. If replacing a PRT, DY, etc. perform auto-digital convergence first. (Press front panel MAGIC FOCUS switch in normal and in through mode). This can eliminate the need for a complete digital convergence alignment.

2. To enter digital convergence adjustment mode without removing the front speaker grill, please do the following:

1) Press “Magic Focus” button on the front panel.
2) While “Magic Focus” is running, press Magic Focus button again to “Stop”.
3) Press “RECALL” or “STATUS” button after “STOP” OSD appears on the screen to enter digital convergence mode.
4) Proceed with convergence adjustment and save the data.
5) Do MAGICS FOCUS sensor initialization.
6) To exit, press POWER button on the front panel.
7) Normal and through 1080i modes are stored separately. Each one has it’s own memory setting.

Adjustment preparation
(1) Receive an RF or video signal.
(2) Set controls to factory preset.
(3) Install jig screen on the set.
(4) Note the center of the video pattern displayed. This is necessary to match dotted lines (adjustment point viewed) and actual point that is adjusted and displayed by the video signal.
(5) Press the service only switch (on CONV./FOCUS PWB). The pattern displayed is now the digital convergence mode.
(6) When performing a complete digital convergence adjustment CLEAR DATA in RAM. (With the TV set off, press and hold the service switch located on the CONV./FOCUS P.W.B. and then press the POWER button).



Adjustment Point

BACK TO ADJUSTMENTS

2.12.1 MAGIC FOCUS Character Set-Up

This instruction should be applied when a new DCU is being replaced.

Adjustment Preparation

(1) Receive NTSC RF or video signal.

(2) With Power off, PRESS and HOLD the SERVICE ONLY button on CONVER/FOCUS PWB, then press the Power On/Off, when picture appears release SERVICE ONLY switch. (Internal crosshatch is displayed without conv. correction data.)

Adjustment Procedure

(1) Press FREEZE key on R/C. (One additional line appears near the top and near the bottom.)

(2) Press PIPCH key, then ADJ. PARAMETER mode is displayed as following.

```
ADJ. PARAMETER
   ROM WRITE?
→ ADJ. DISP.  :  77

SEL. STAT.   : 00
DEMO.WAIT :  2f
```

(3) Press ◀ or ▶ key to change the ADJ. DISP. data.

(4) Press CURSOR ▼ to access DCU parameter. Change the data as shown on Table 1, DCU Parameter.

TABLE 1. - DCU PARAMETER

Parameter	Normal
ADJ. DISP	77
SEL. STAT	00
DEMO WAIT	2F
INT STEP 1	02
INT A DLY	0A
INT C DLY	FA
INT BAR	1C
MGF STEP 1	00
MGF A DLY	0A
MGF C DLY	FA
MGF BAR	0E
SENSOR CK	00
SENSOR 0	FF
SENSOR 1	00
SENSOR 2	FF
SENSOR 3	01
SENSOR 4	FF
SENSOR 5	06
SENSOR 6	FF
SENSOR 7	07
AD LEVEL	03
E. DISPLAY	00
ADJ. TIMS	60
AD LEVEL	05
AD NOISE	80
PHASE MOT	60
H. BLK-RV	03
H. BLK-GV	01
H. BLK-BV	03
H. BLK-H	00
PON DELAY	0C
IR-CODE	00
INITIAL 50	9E
MGF 50	96
9 POINT 50	FE
STAT 50	FE
DYNA 50	9F

BACK TO ADJUSTMENTS

(5) Press PIP MODE key 2 times to write the changed data into EEPROM. (First press, ADJ. PARAMETER / ROM WRITE ? is displayed. 2nd press writes data into EEPROM. Green dots appear after completion of operation.)
(6) Press MUTE key to exit from ADJ. PARAMETER mode.

2.12.2 MAGIC FOCUS Pattern Set-Up

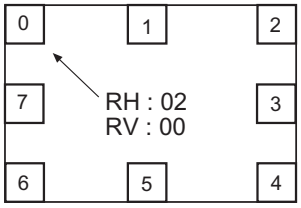
NOTE: (1) This instruction should be applied when a new DCU is being replaced.
(2) This instruction shows how to set up the pattern position for MAGIC FOCUS.

Adjustment Procedure

(1) Receive NTSC RF or video signal.
(2) With Power off, PRESS and HOLD the SERVICE ONLY button on CONVER/FOCUS PWB, then press the Power On/Off, when picture appears release SERVICE ONLY button. (Internal crosshatch is displayed without conv. correction data.)

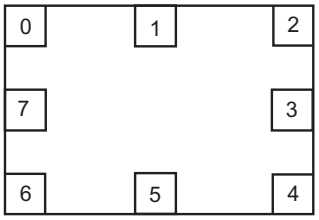
Adjustment Procedure

(1) Press FREEZE key on R/C. (One addtional line appears near the top and near the bottom.)
(2) Press HELP key, then MAGIC FOCUS PATTERN mode is displayed as follows:



(3) Use [6] key on remote control to rotate the arrow. Arrow indicates each sensor position. (Upper left corner, middle top, upper right corner, right middle, in this order).
(4) Use the keys to switch color of pattern.
STATUS : Green pattern
0 : Red pattern
ANT : Blue pattern
(5) Press ◀ or ▶ key to change the data value to the horizontal direction. Press ▲ or ▼ key to change the data value to the vertical direction.
(6) Set the data as shown below:

Pattern Position



Normal Mode: 43UWX10B Model Only

	0	1	2	3	4	5	6	7
RH	02	02	FA	FE	FC	02	04	02
RV	00	00	03	00	FE	01	01	00
GH	02	02	FA	FE	FC	00	04	02
GV	00	00	03	00	FE	01	01	00
BH	04	FE	FC	FE	FA	FE	04	02
BV	03	00	01	00	00	01	FE	00

Normal Mode: 53/61UWX10B Models Only

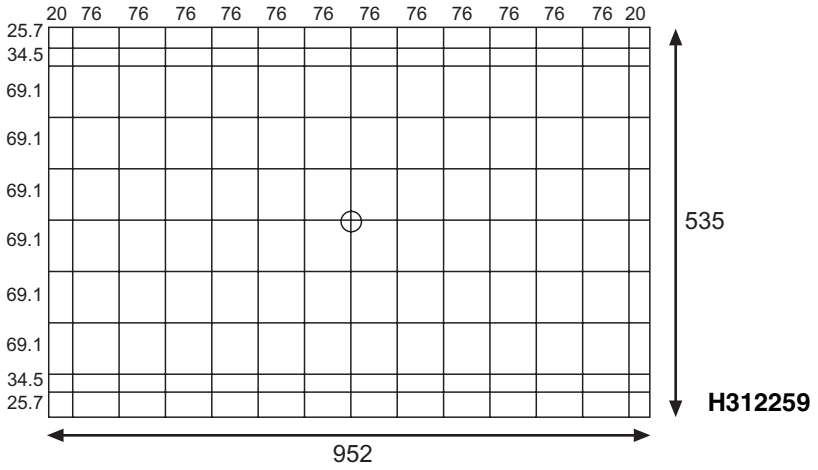
	0	1	2	3	4	5	6	7
RH	02	02	FA	FE	FC	02	04	02
RV	00	00	03	00	FE	01	01	00
GH	04	00	FE	FE	FE	00	04	02
GV	02	00	03	00	00	01	00	00
BH	04	FE	FC	FE	FA	FE	04	02
BV	03	00	01	00	00	01	FE	00

(7) Press PIP MODE key 2 times to write the changed data in EEPROM. (First press, ADJ. PATTERN/ROM WRITE ? 2nd press, writes data into EEPROM. Green dots appear after completion of operation.)
(8) Press MUTE key to exit from PATTERN mode.

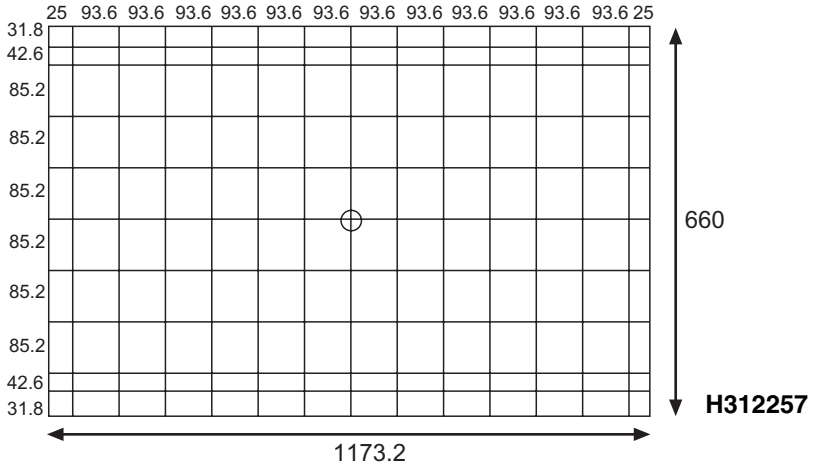
BACK TO ADJUSTMENTS

2.12.3 Convergence Jig Screen Specifications

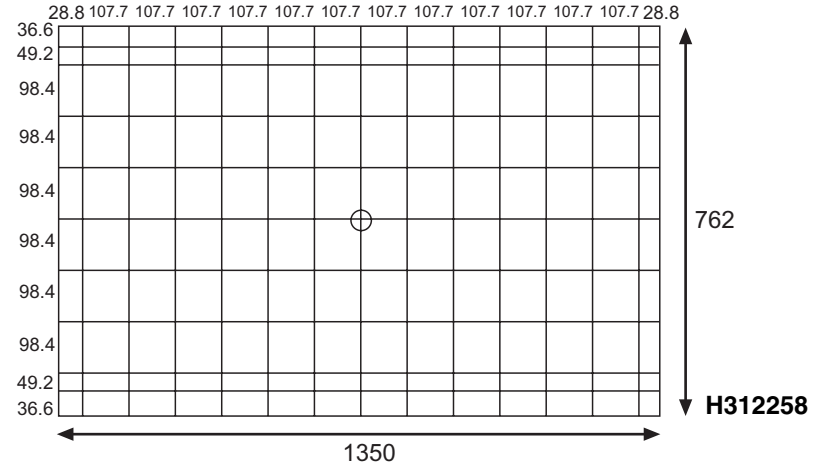
43UWX10B



53UWX10B/53SWX10B



61UWX10B/61SWX10B



BACK TO ADJUSTMENTS

Note: If only minor adjustments to convergence are needed, the jig screen is not necessary. Use digital data stored in memory and one color as a reference (red, green, or blue). DO NOT CLEAR DATA and WRITE to ROM memory.

2.12.4 Raster position adjustment

Adjustment preparation

(1) Position adjustment - This will move an entire color. Use this adjustment to match colors at the center of the screen. (Active video center from external signal and physical screen center should now match from phase adjustment).
(2) Use the buttons below to switch color to adjust.
"STATUS" - Green
"0" - Red
"ANT" - Blue

Adjustment procedure

(1) Press the FREEZE button. Extra horizontal lines appear to confirm raster position mode.
(2) Use the thumb stick to adjust position.
(3) Press FREEZE again to exit raster position mode.

Notes: (1) Other functions cannot be accessed when in raster position adjustment mode. Press FREEZE and confirm extra horizontal lines disappear to exit raster position mode.
(2) Press MENU to switch between all colors displayed or adjustment color and Green only.

2.12.5 Convergence point adjustment

Adjustment preparation

(1) Select color to adjust.
"STATUS" - Green
"0" - Red
"ANT" - Blue
(2) Use 4, 6, 2, and 5 to move the cursor position (dotted lines).
(3) Use thumb stick to move the convergence point.
(4) Three adjustment modes are available:
1. (3x3) Press "STATUS" 5 times (only works when DCU is in uncorrected state)
2. (7x5) Press "0" 5 times
3. (13x9) Press "ANT" 5 times

For touch-up, only the (13x9) mode is necessary. This will adjust every cross-hatch intersection point on the screen.

For complete adjustment, start with (3x3) mode. This will adjust center point and eight edge points only, but will greatly reduce adjustment time. Then use (7x5) mode, and finally (13x9) mode to finish convergence.

If "S" distortion appears between cross-hatch lines repeat (7x5) mode to change calculation process while adjusting to remove distortion, then return to (13x9) mode to finish touch-up convergence.

Adjustment procedure

(1) Receive any NTSC signal.
(2) Start adjustment at the center of the screen.
(3) Continue adjustment at next closest position.
(4) Adjust center area first, ending with edge sections.
(5) Press INFO button to perform calculation operation. This process will take about 2 seconds and no picture will be seen at this time.
(6) After interpolation, check convergence again and repeat (1)-(5) if necessary.
(7) When convergence is acceptable, press PIP MODE to write data to ROM memory. ROM WRITE? is displayed to alarm system that ROM will be overwritten with new data. Press the PIP MODE button again to write displayed data to ROM.
(8) DATA WRITE TO ROM will take approximately 4 seconds and no picture will be displayed.
(9) Green dots will be displayed when operation is completed.
(10) Press MUTE to return to convergence pattern, then confirm again convergence is acceptable.
(11) Press PIP MODE (ROM WRITE) mode, then press PIP CH to initialize sensor data positions.

Notes: (1) Display only green for easier adjustment and match to jig screen. Press "MENU", THEN PRESS "STATUS".
(2) Perform interpolation and data write to ROM after green adjustment. Once green has been confirmed to match jig screen, the jig screen can be removed. Do not readjust the green color after jig screen has been removed. This is now your reference color.
(3) Display green and red only and match red to green.
(4) Display all colors and match blue to green and red. Touch-up red color if necessary.
(5) Existing DATA in ROM can be read by pressing the SWAP button 2 times. This data can be used after replacing a component (CRT, DY, etc.) Where complete convergence adjustment is not necessary, be careful not to overwrite this data. DO NOT write cleared RAM data into ROM or a complete convergence adjustment will be necessary. Remember to try MAGIC FOCUS before starting convergence adjustment to minimize adjustment time.
(6) To confirm and fine tune the convergence at the edge of the screen, press the PIP CH button on the remote control while in the digital convergence adjustment mode (DCAM) for additional lines at the edge of the screen. Fine tune the edge convergence as necessary. To exit, press PIP CH again.

BACK TO ADJUSTMENTS

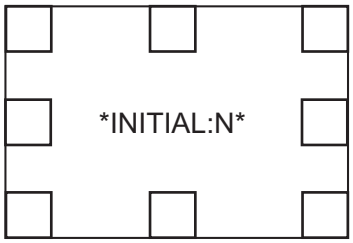
2.13.6 Magic Focus Initialize

Adjustment Preparation

(1) Receive any NTSC signal. (Set is in Normal mode.)
(2) Digital convergence adjustment should have been completed.
(3) Set is in DCU adjustment mode.

Adjustment Procedure

(1) Press PIP MODE and then PIP CH to initialize Magic Focus. The initialize operation starts and several windows appear during this operation. It takes about 30 seconds or less.
(2) When green dots appear, initialize operation is finished.
(3) Turn power OFF.



Initialization Operation

REMARKS

Another way to start the initialize operation:

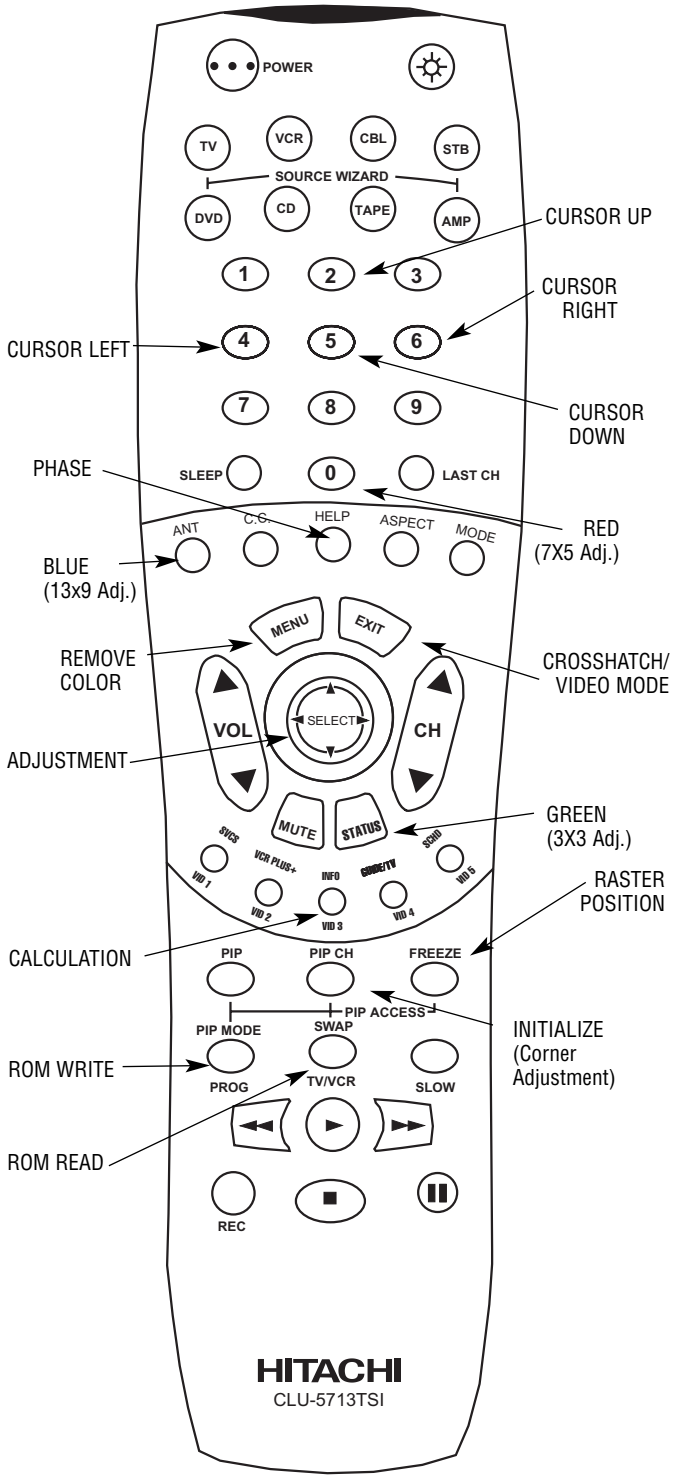
(1) Press SERVICE ONLY Sw. on CONVER/FOCUS PWB to set DCU adj. mode.
(2) Press [PIP MODE] key on R/C. Then ROM WRITE? is displayed for alarm. Next, press [PIP CH] key on R/C to start initialization. When green dots appear, initalization operation is finished.

NOTE: If there is an error message, red dots or an error code, refer to page 57, CONVERGENCE ERRORS.

[PIP MODE] key is same function as current [MOVE] key.

BACK TO ADJUSTMENTS

2.13.1 Digital Convergence Remote Control



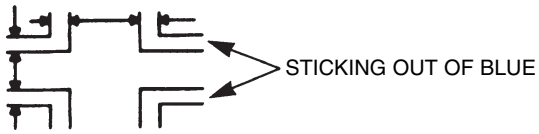
2.13 Blue defocus adjustment

Adjustment Preparation

(1) Optical and electrical focus adjustment should have been completed.
(2) The convergence adjustment should have been completed.
(3) Set Video conditions to factory preset.
(4) Input the cross-hatch signal.

Adjustment procedure

(1) Turn the B Focus VR (Focus Pack) fully clockwise.
(2) Adjust sticking out level of blue to specification shown in table below, by turning the (B) FOCUS VR counter clockwise.



UNEVENNESS SPECIFICATION: ±1cd/m^2

Defocus sticking out specification

Screen Size	Blue sticking out
43”	1.0mm
53”	1.0mm
61”	1.0mm

Condition: User controls are set to the initial set positions (for shipment)

Measuring point-Screen center.

2.14 White balance adjustment

(1) Screen adjustment
(2) High light white balance.
(3) Low light white balance.

I^2C data for High light white balance

Green : G DRV (COOL) 3F (initial data)(Adjustable)
Red : R DRV (COOL) 3F (initial data)(Adjustable)
Blue : on FOCUS PACK EFPK

I^2C data for Low light white balance

Green : G CUT OFF (COOL) 80 (initial) (Adj. data)
Red : R CUT OFF (COOL) 80 (initial) (Adj. data)
Blue : B CUT OFF (COOL) 80 (initial) (Fixed data)

Adjustment Preparation

(1) Adjustment should start 20 min. or more after the TV power is turned ON.
(2) CUT OFF ADJ. should be finished.
(3) VIDEO control : Contrast is MAX., Others are center.
(4) Color temp. : COOL
(5) Signal:
   * Hight Light white Balance Adj.
     White raster 0.715Vpp (w/o sync., termination incidence : 75ohm.) 100IRE
   * Low Light white balance ADJ.
     White raster 0.180Vpp (w/o sync., termination incidence : 75ohm.) 25 IRE (The brightness equal to 20cd/m^2 at screen center)
(6) BLUE defocus ADJ. should be finished.
(7) The vertical incident illumination on the screen should be 20 Lux. or less.
(8) Go into I^2C service mode.

Adjustment Procedure

A. High Light W/B adjustment

(1) Receive signal for High Light white balance ADJ.
(2) Adjust white balance to 10800K–0 MPCD (x=0.278; y=0.280) at center of screen, using R DRV/ G DRV with remote control.

B. Low Light W/B adjustment

(1) Receive signal for Low Light white balance ADJ.
(2) Adjust white balance to 10800K–0 MPCE (x =0.278, y=0.280) at center of screen, using R CUT OFF/G CUT OFF/B CUT OFF with remote control. Do not touch screen VRs.
(3) Take Blue color as a reference color, then adjust Low Light W/B by increasing other two colors CUT OFF data. Do not change B CUT OFF data.

Repeat A & B two or three times, until no adjustment is needed (white balance tracking-GOOD). If W/B tracking is not good, set all data (BothDRV and CUT OFF) to inital data, and change reference color to different color.

Note: If Low Light adj. spec cannot be followed, apply previous adj. spec. (adjust by eye.)

BACK TO ADJUSTMENTS

Adjustment preparation

(1) Start adjustment after the power is turned on for 20 minutes or more.
(2) The vertical incident illumination on the screen should be 20 lux or less. (Room should be dark).
(3) Set the video settings (CONTRAST: max, others: center) to standard condition.
(4) The blue defocus and cut off adjustments should be completed.
(5) For low light white balance adjustment, input a white raster signal level of 0.286 Vp-p (Video input level).
(6) For high light white balance adjustment, input a white raster signal level of 0.715Vp-p (Video input level).
(7) Confirm R and G Drive (cool) data is 3F.
(8) Set Video Advanced Settings-Color Temperature to COOL.

Adjustment procedure

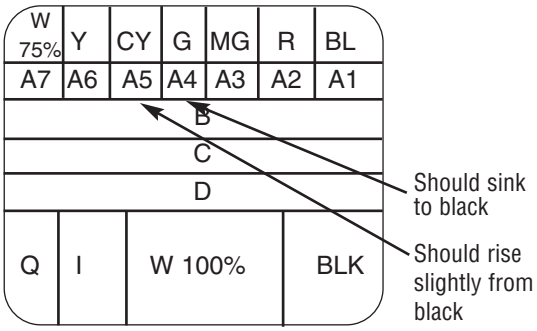
(1) Select the input signal for high brightness (Video level = 0.715Vpp).
(2) Adjust the high brightness white balance by changing I²C menu (R and G DRV cool mode only).
(3) Select the signal for low brightness (Video level = 0.286Vpp)
(4) Adjust the low brightness white balance.
(5) Check that high brightness white balance is still obtained. If it is not, return to step (2).

White balance =	10800° K ± 0 MPCD
Color coordinate =	x …… 0.278
	y …… 0.280
Normal:	7200˚K
Warm:	6500˚K

2.15 Sub brightness adjustment

Adjustment preparation

(1) Start adjustment after the power is turned ON for 20 minutes or more.
(2) Receive the color bar signal.
(3) Set video conditions to factory preset.
(4) The vertical incident illumination on the screen should be 20 lux or less. (Room should be dark).



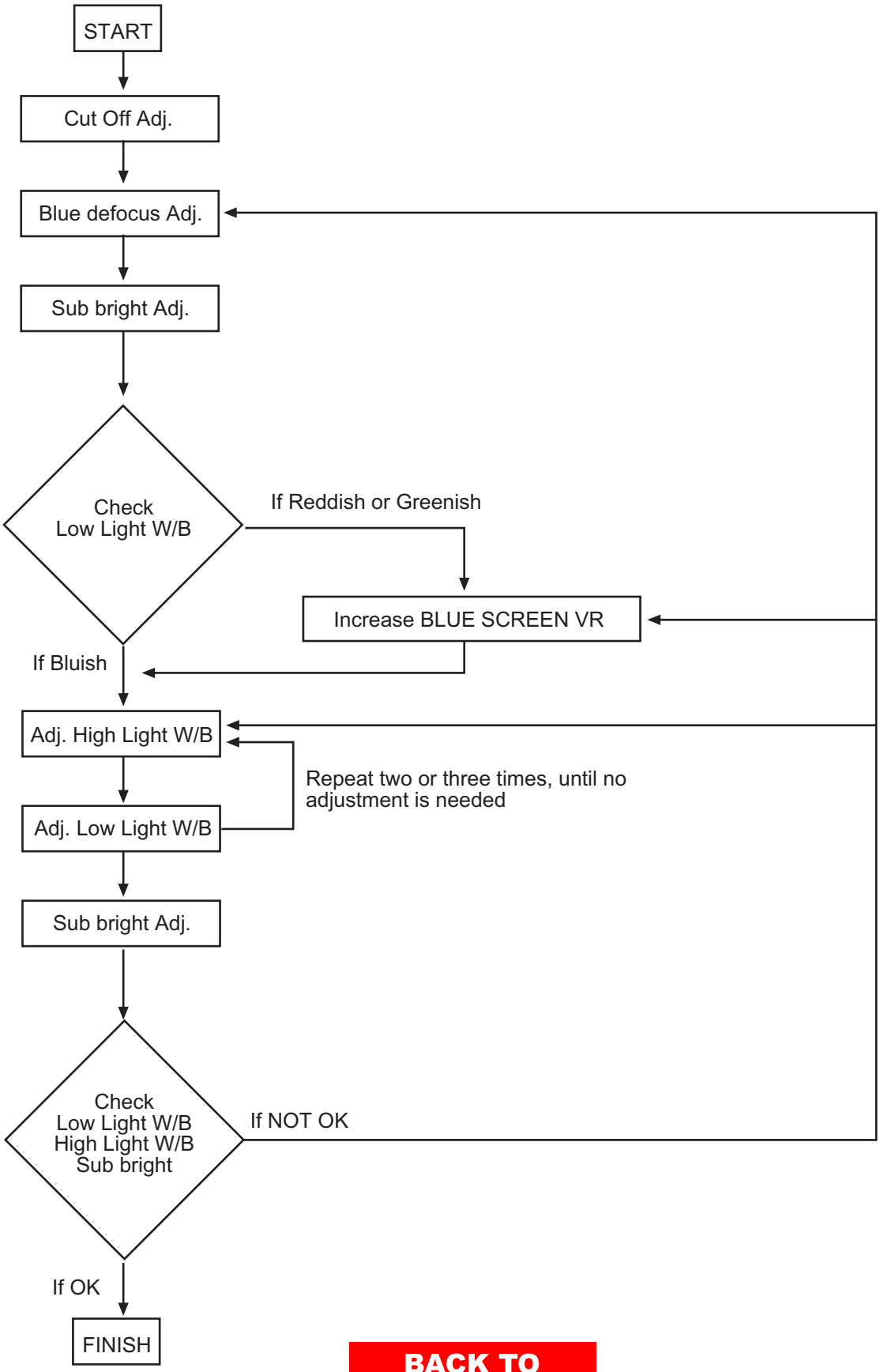
Adjustment procedure

(1) Go to “Sub Brightness” adjustment in I²C ADJUST mode (press Input and Power button on Control panel at same time), using thumb stick ▲, ▼ and then thumb stick ▶.
(2) Then adjust “Sub Brightness” using thumb stick ◀, ▶ to increase or decrease the value, according to figure. (Visually adjust).
(3) After adjustment, press MENU button to exit I²C ADJUST mode. (Data is stored in memory).

Note: When selecting SUB-BRIGHTNESS mode the microprocessor sets the CONTRAST and COLOR to MIN. automatically, but make sure that the other conditions are center.
Directly observe the screen by eye without using a mirror.

BACK TO ADJUSTMENTS

WHITE BALANCE ADJUSTMENT FLOW CHART



BACK TO ADJUSTMENTS

2.16 Sub Picture Signal Amplitude Adjustment

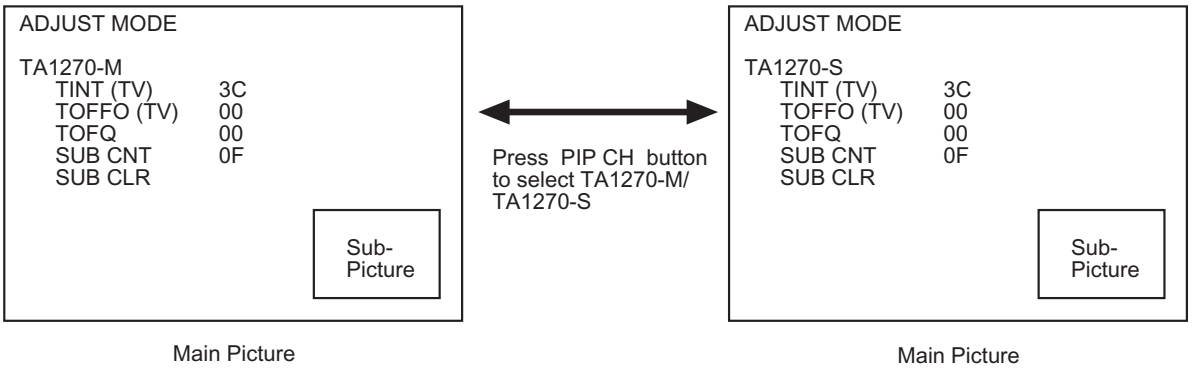
Adjustment preparation

(1) Sub-brightness adjustment should be finished.
(2) Start adjustment about 20 minutes after the power switch is turned on.
(3) Condition should be as follows:
Contrast : Max
Brightness : Center
(4) Press PIP button of R/C unit.
(5) The previous selected PinP will appear on the screen.
(6) Select SPLIT mode and receive NTSC white signal (amplitude 2.0Vp-p=Open), main-picture and sub-picture (Do not use component signal).
(7) Connect probe on the P852 (CPT PWB- Green) to check sub-picture amplitude.

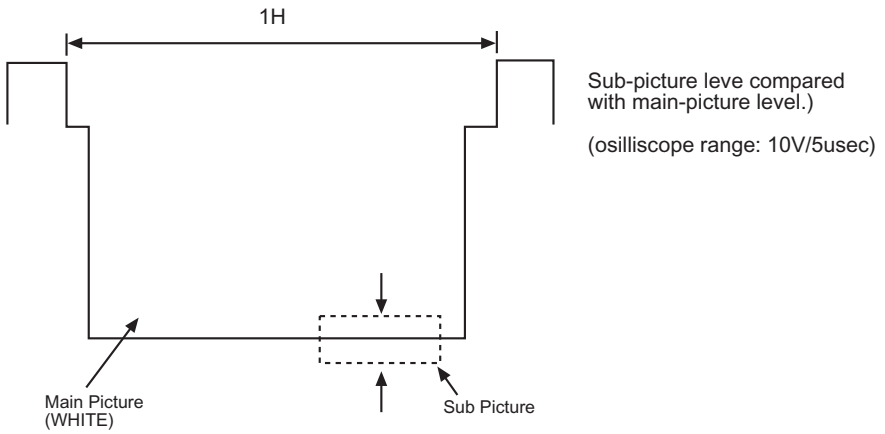
BACK TO ADJUSTMENTS

Adjustment procedure

(1) Display PIP SPLIT picture.
(2) Go Into I²C service mode and press MENU button until TA1270-M is displayed on screen.
(3) Press "PIP CH" button of R/C, "TA1270-M" change to "TA1270-S".
(4) Observe P852 on the CPT PWB and change the "TA1270-S SUB CNT" I²C data so that the amplitude of the sub-picture is the same level as that of the main picture.



*Wave form of P852 (green Cathode)



Adjustment specification: ±1V
Quality control specification: ±3V

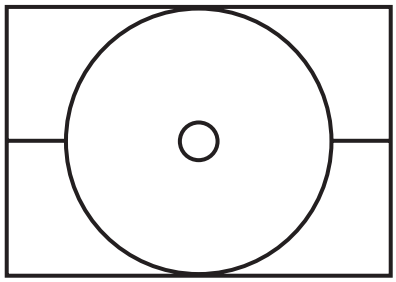
2.17 Horizontal position adjustment

Adjustment preparation

(1) Set video conditions to factory preset.
(2) DIGITAL CONVERGENCE adjustment should be finished. (Normal mode and 1080i through mode).

Adjustment procedure

(1) Receive circle pattern signal.
(2) Go to I²C Adjustment mode by pressing INPUT and POWER button on control panel at the same time.
(3) Choose H. POSI item by using thumb stick ▲,▼.
(4) Adjust HOR. POSITION as following by using thumb stick ◀,▶.

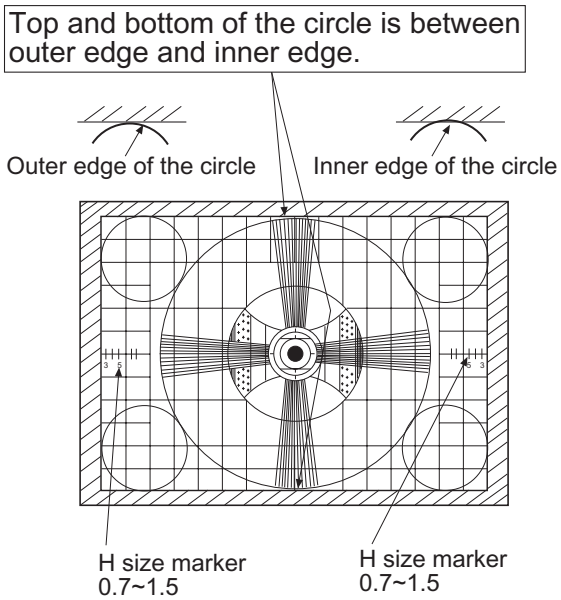


Spec: Balance Left/Right side display position for H. position. H. size marker 0.7~1.5.

2.18 Scanning area check

Checking condition

(1) Digital convergence adjustment should have been completed.
(2) Receive the circle pattern signal.
(3) Brightness/Contrast - standard condition
Contrast:max
Other controls:center position
(4) Check that the scanning area matches with the following drawing.


Top and bottom of the circle is between outer edge and inner edge.
Outer edge of the circle
Inner edge of the circle
H size marker
0.7~1.5
H size marker
0.7~1.5

BACK TO ADJUSTMENTS

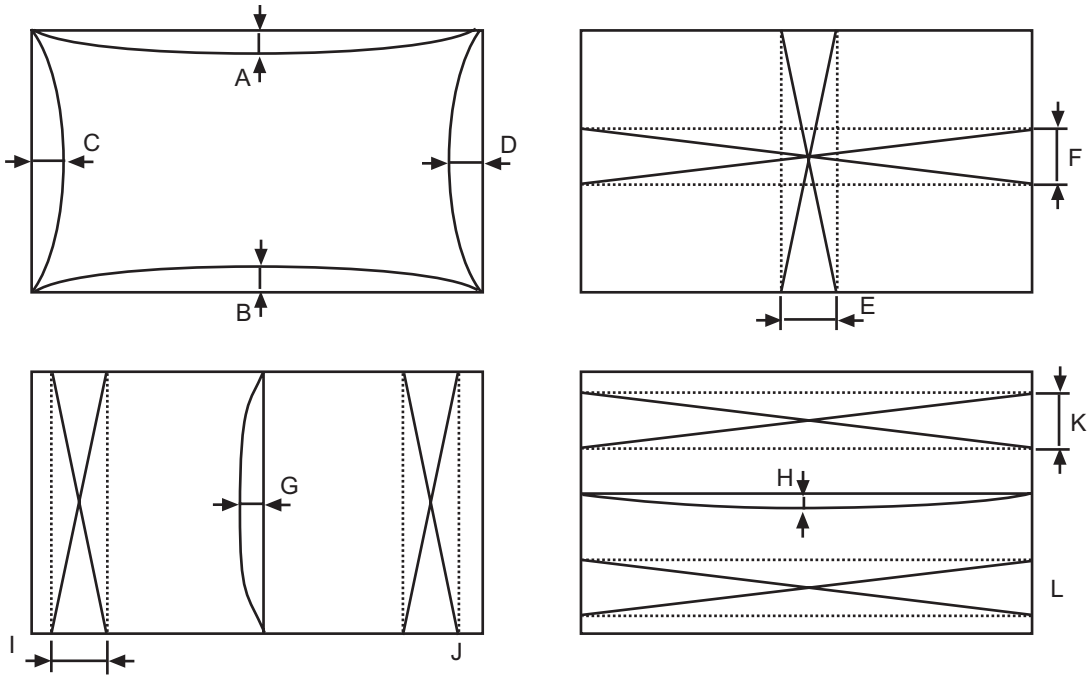
2.19 Raster distortion check

Checking condition

(1) Digital convergence adjustment should have been completed.
(2) Receive the cross-hatch signal (internal signal of the the set is acceptable).
(3) Brightness/Contrast --- standard condition
Contrast : max
Other controls : center position
(4) Check the raster distortion specification: Value shown in the table below or less.
A ~ D
I ~ L ---Measure the winding of the outside line.

(unit: mm)

Item		Symbol	43”	53”	61”
Top/Bottom pincushion distortion		A,B	±5	±6	±6
Right/Left pincushion distortion		C,D	±4	±4	±5
Center line tilt	Vertical line	5	5	6	6
	Horizontal line	5	5	6	6
Center line winding	Vertical line	±3	±3	±3	±4
	Horizontal line	±3	±3	±3	±4
Trapezoidal distortion	Vertical line	4	4	5	5
Skew distortion	Horizontal line	5	5	6	6

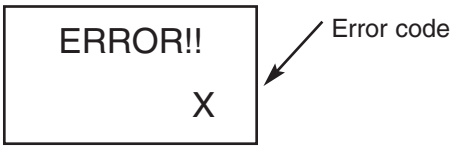


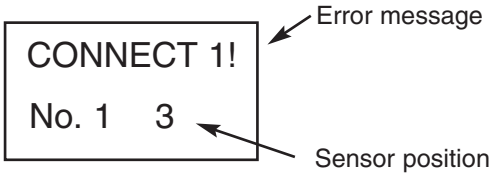
BACK TO ADJUSTMENTS

5. Convergence Errors.

If an error message or code appears while performing MAGIC FOCUS or initialize (PIP MODE, PIP CH in DCU service mode) follow this confirmation and repair method.

1. Turn on power and receive any signal.
2. Press service switch on Power/Deflection board.
3. Press “SWAP” then “PIP CH” on remote control.
4. Error code will be displayed in bottom right corner of screen. If there is no error, an “INITIAL OK” message will appear on screen.





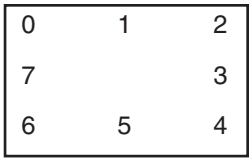
5. Follow repair table for errors.

DCU REPAIR TABLE

Error Code	Error Display Code	Countermeasure	Application	
			Initialize	Magic Focus
1	VF Error	Replace DCU	X	X
2 *2	Connect 1	1. Darken Outside Light 2. Placing of sensor 3. Is pattern hitting sensor 4. Check connection and solder bridge of sensor 5. Replace sensor 6. Replace sensor P.W.B. 7. Sensor Connector check 8. Replace DCU 9. Adjustment check (H/V size, centering)	X	—
3*2	A/D Level	Same as Error Code 2	X	X
4	Over Flow	1. Check the placement of sensor 2. Adjustment check (H/V size, centering) 3. Conv. amp. gain check *1 (check resistor values only)	X	X
5	Convergence	Same as Error Code 4	X	X
7	Operation	Same as Error Code 4	—	X
9	Connect 2	Same as Error Code 2	X	X
10	Noise	Input strong field signal Check the wiring of connector between sensor and DCU	X	X
11	Sync	Input strong field signal Check the wiring of connetor between sensor and DCU	X	X

*1 -- RK 41, 46, 50, 54, 58, 62 check these resistors.

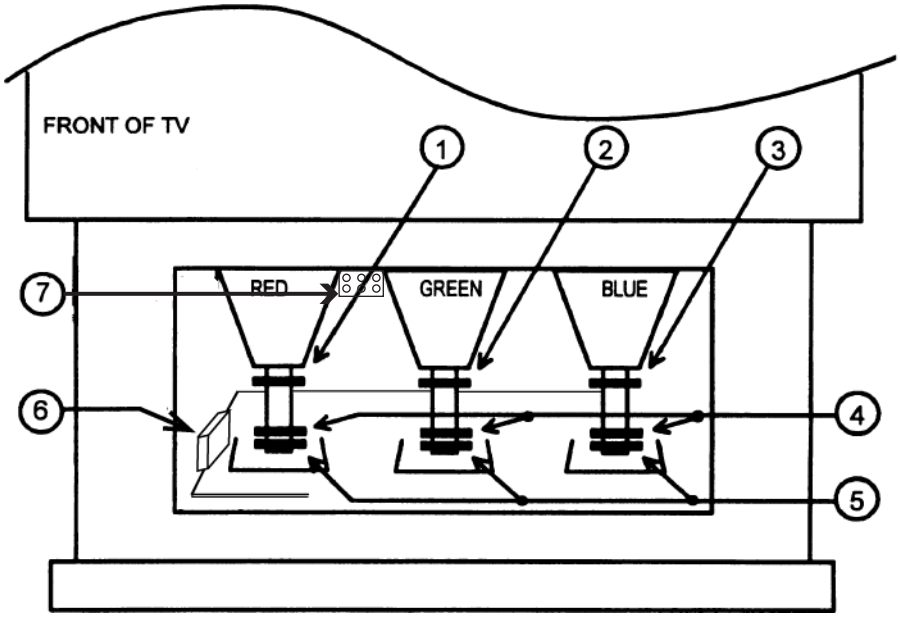
*2 Sensor Position



(View from front side)

BACK TO ADJUSTMENTS

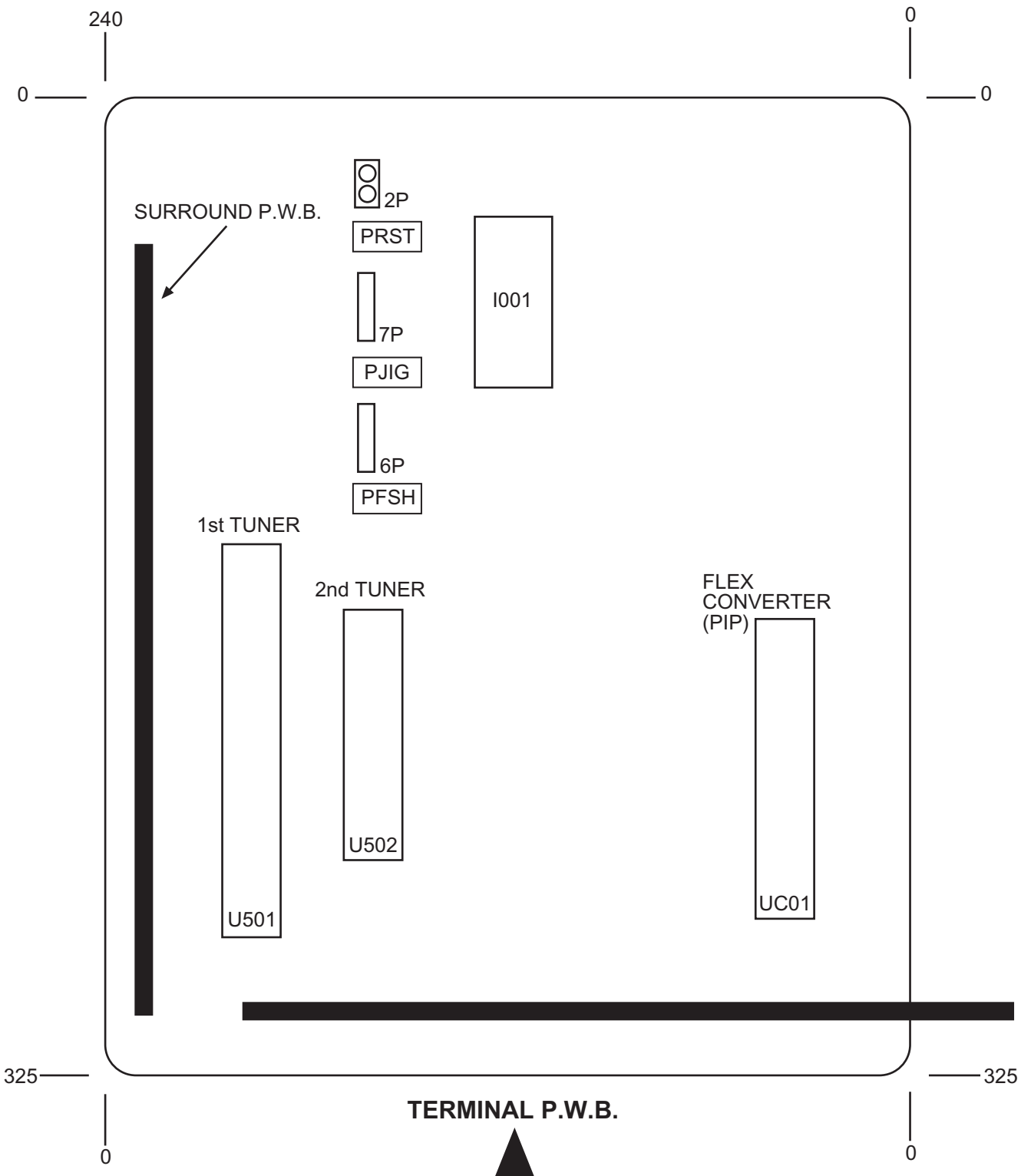
3. ADJUSTMENT POINT
3.1 CRT, cabinet locations



1. CENTERING MAGNET FOR RED PRT
2. CENTERING MAGNET FOR GREEN PRT
3. CENTERING MAGNET FOR BLUE PRT
4. 4-POLE MAGNET FOR BEAM FORM ADJUSTMENT
5. BEAM ALIGNMENT MAGNET
6. DIGITAL CONVERGENCE MODULE (On CONV/MAGIC FOCUS Board)
7. FOCUS PACK (Top Adjustments for Screen, Bottom for Focus)

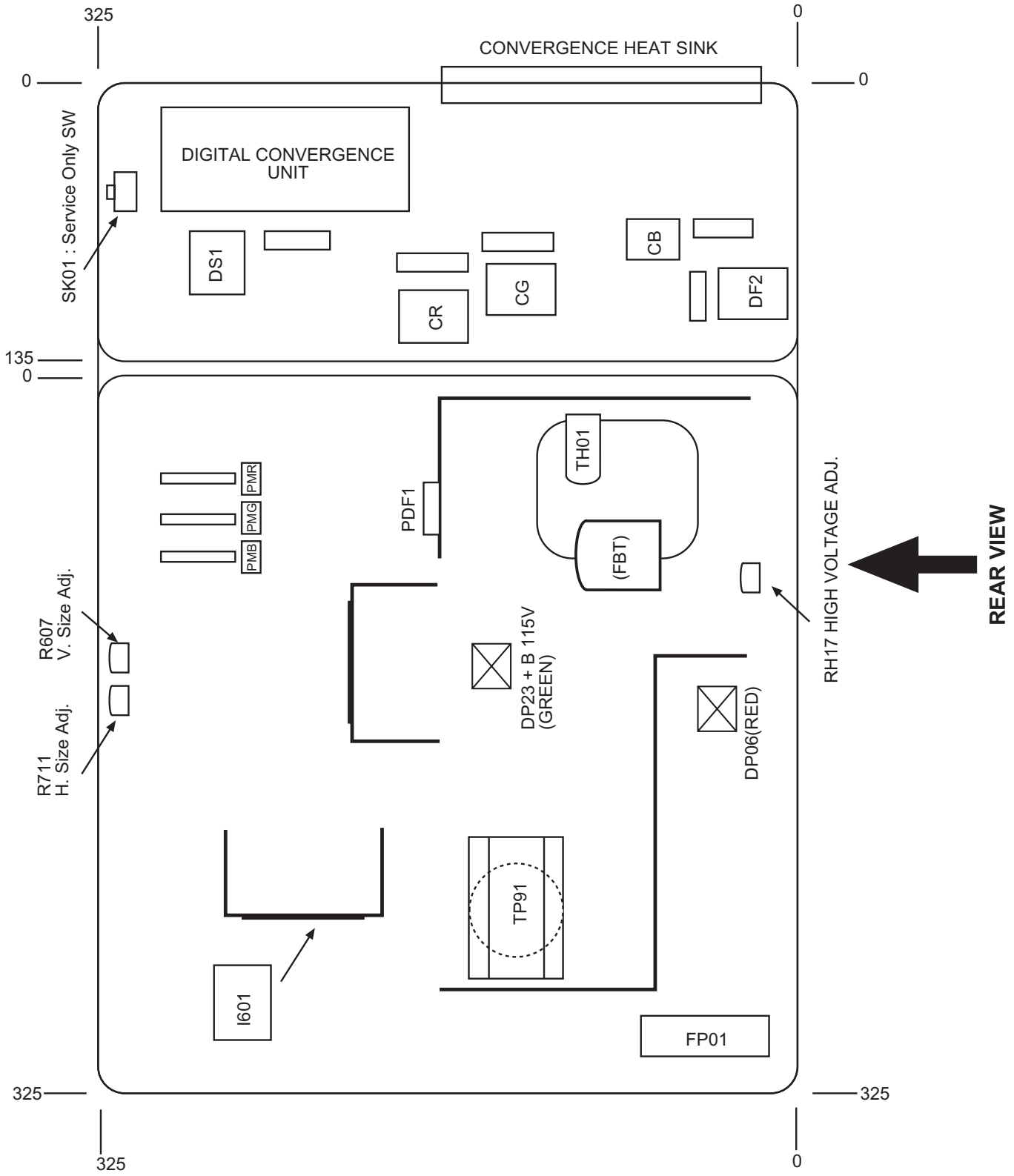
BACK TO ADJUSTMENTS

3.2 MAIN CHASSIS (SIGNAL PWB)



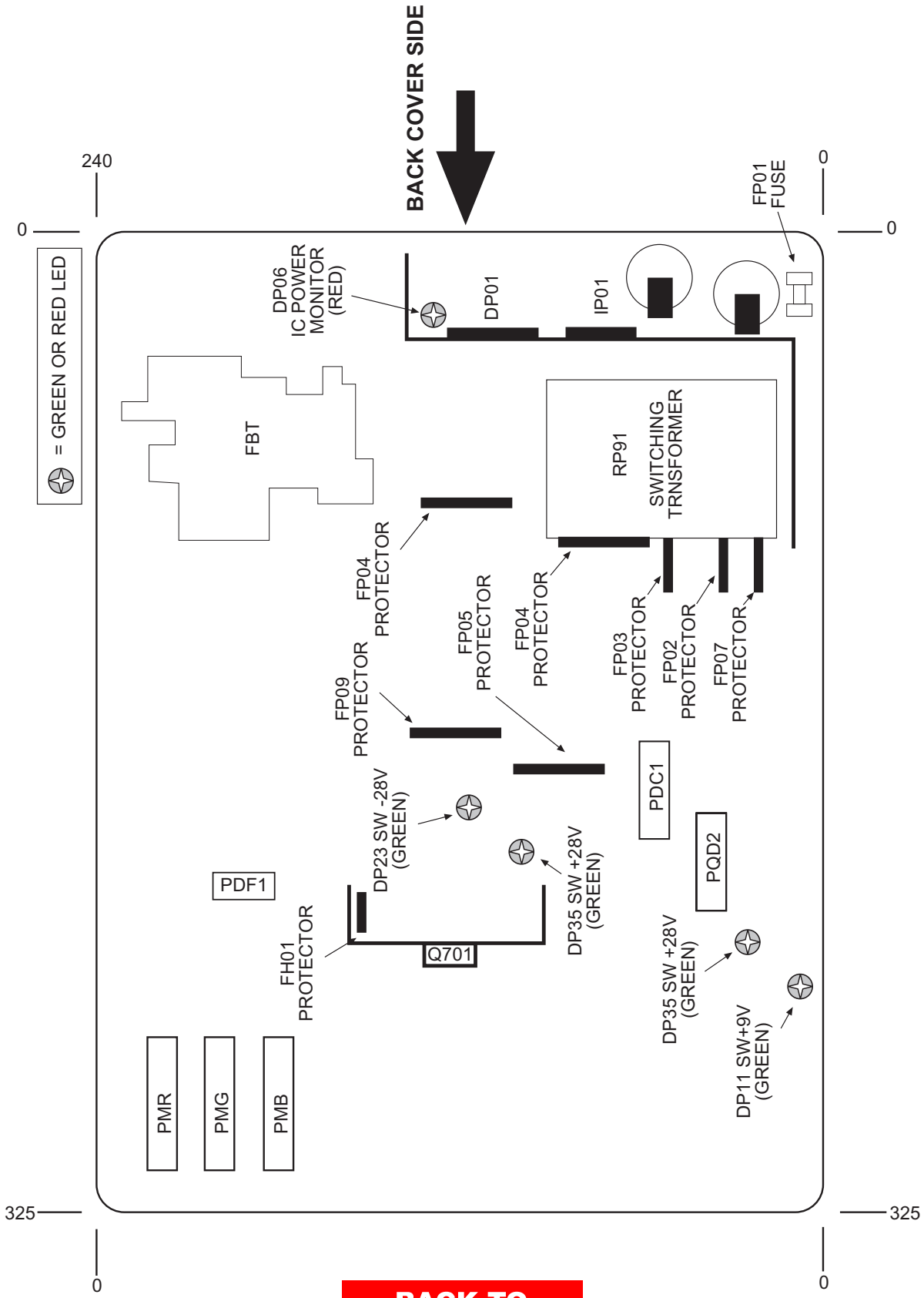
BACK TO ADJUSTMENTS

3.3 MAIN CHASSIS (DEFLECTION/CONVERGENCE PWB)



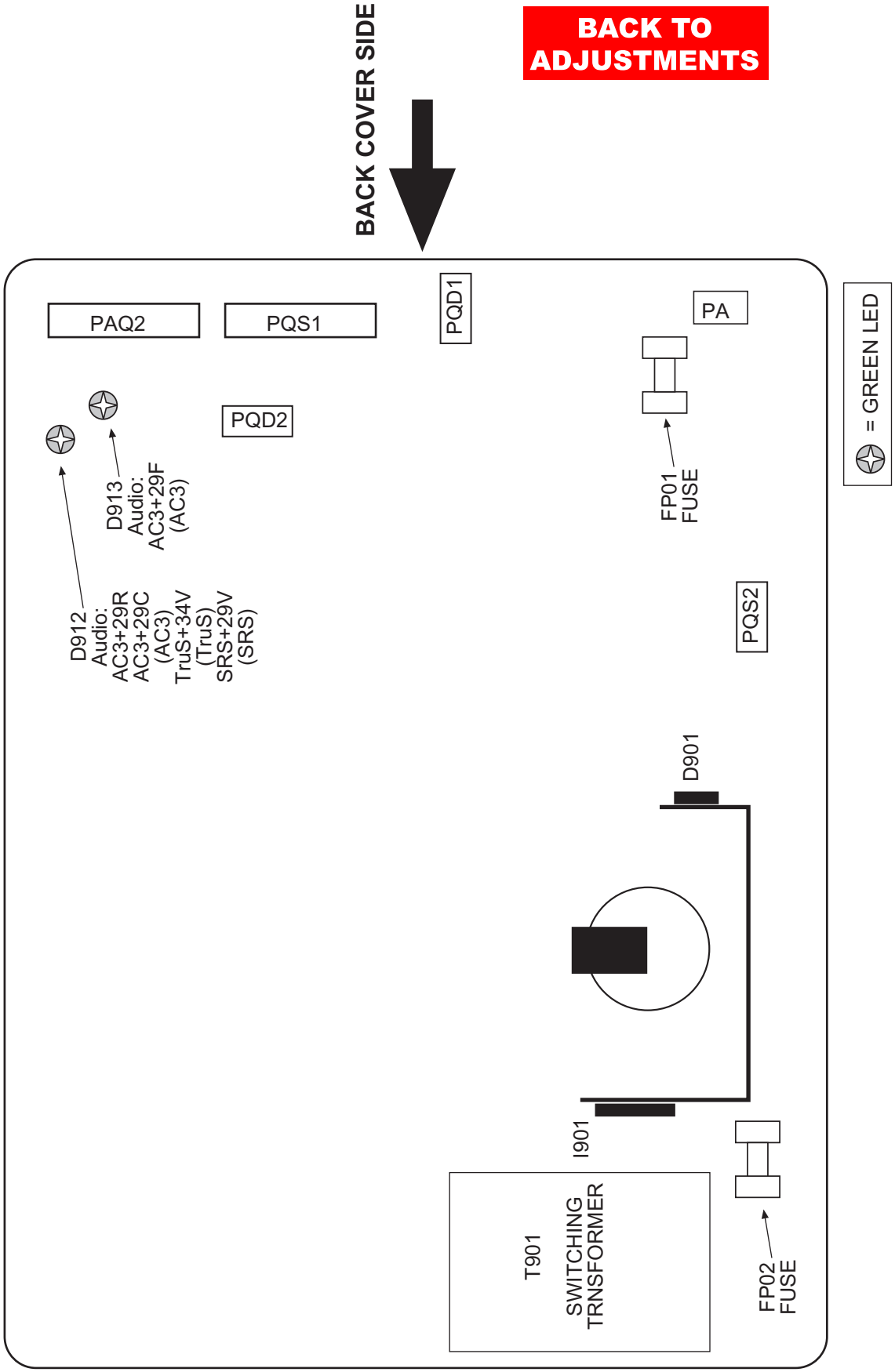
BACK TO ADJUSTMENTS

3.3 MAIN CHASSIS CONT. (DEFLECTION/POWER PWB)

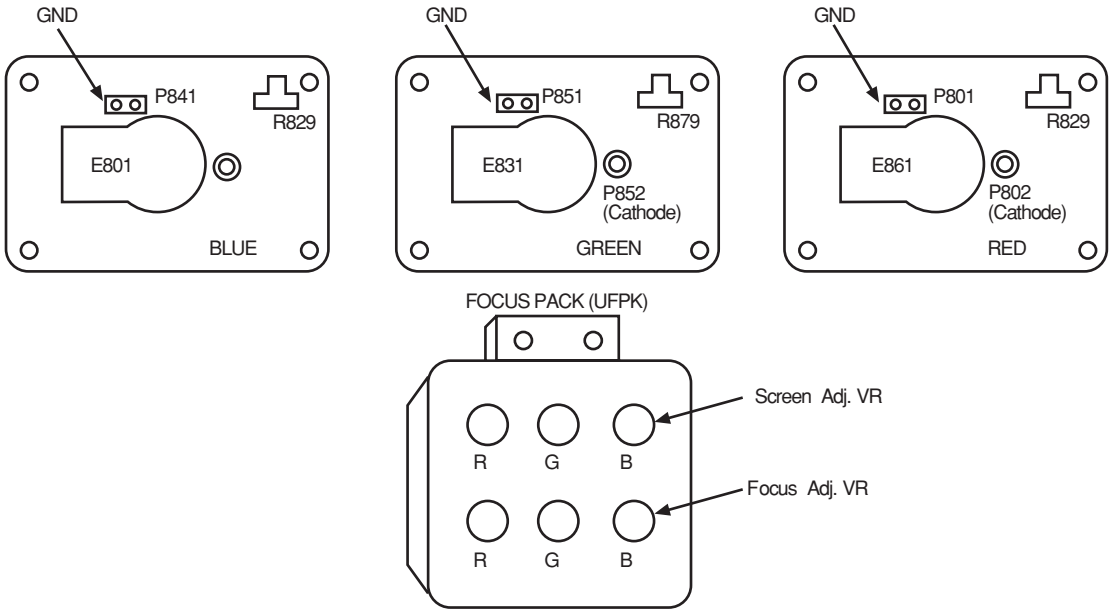


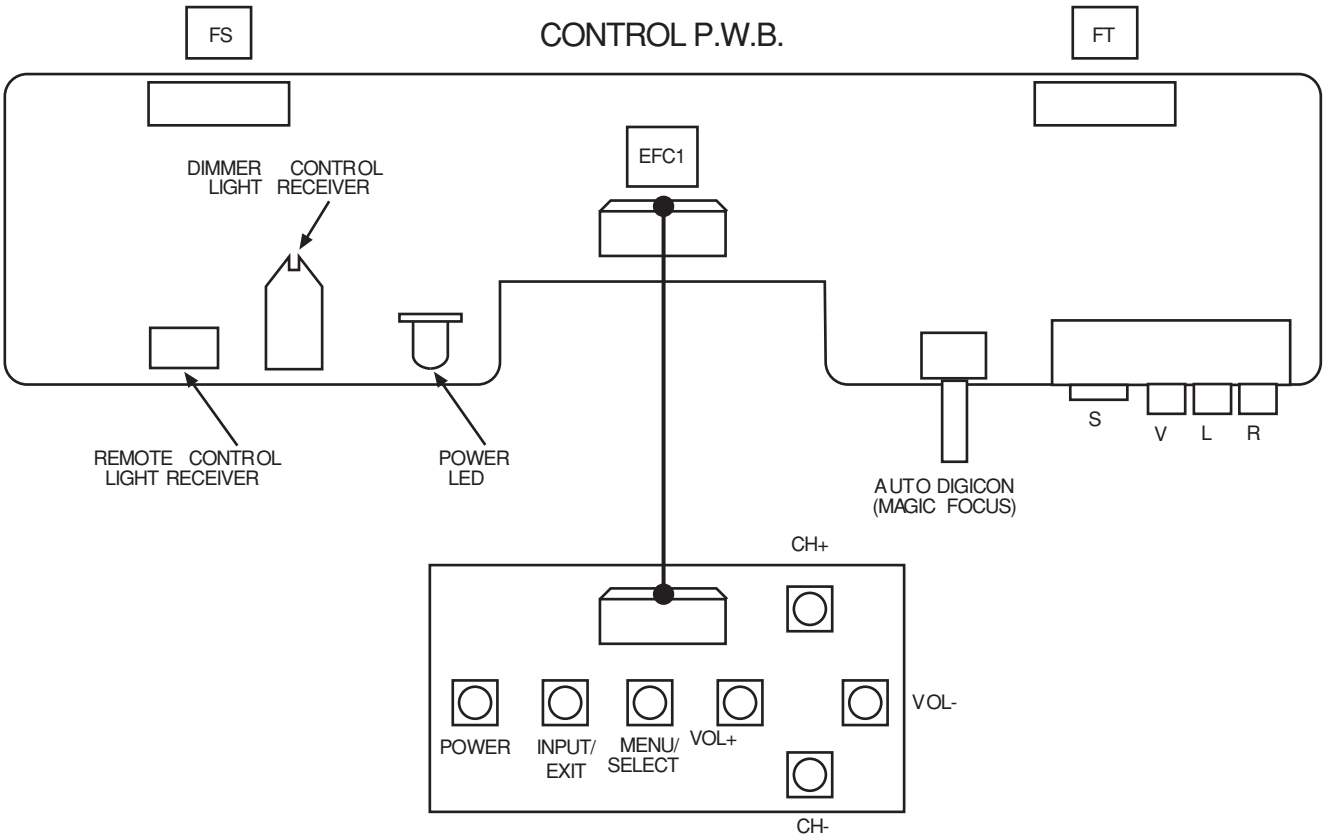
BACK TO ADJUSTMENTS

3.4 MAIN CHASSIS (POWER SUPPLY PWB)



3.5 CPT (R) (G) (B), Focus Pack, Control P.W.B.

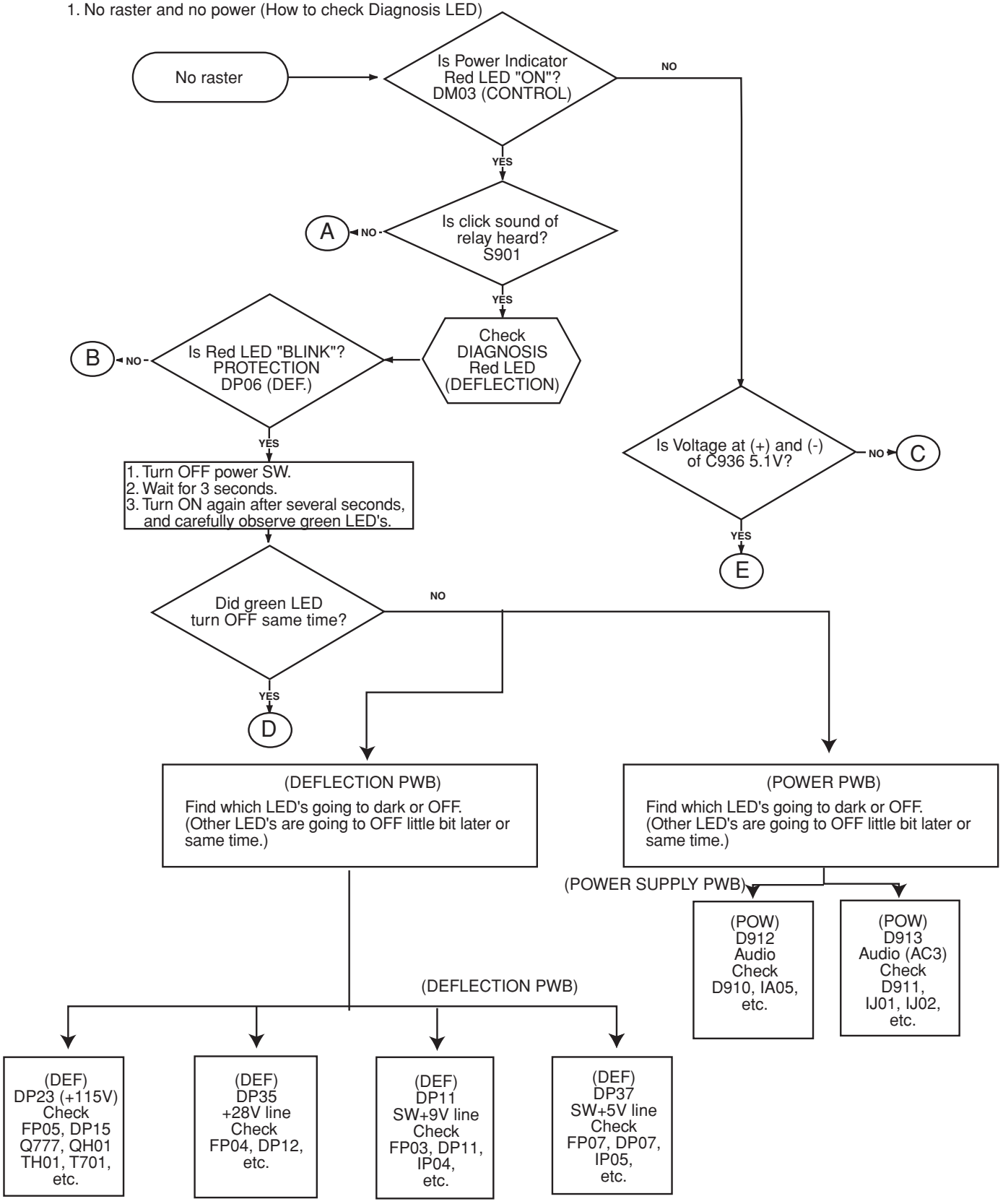




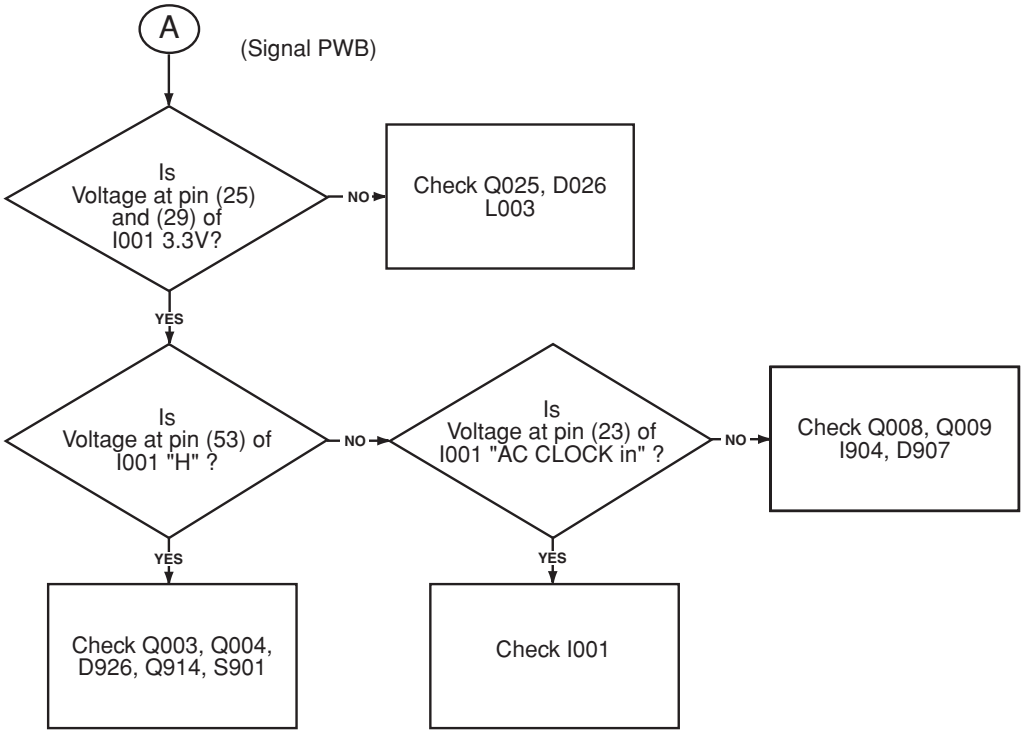
BACK TO ADJUSTMENTS

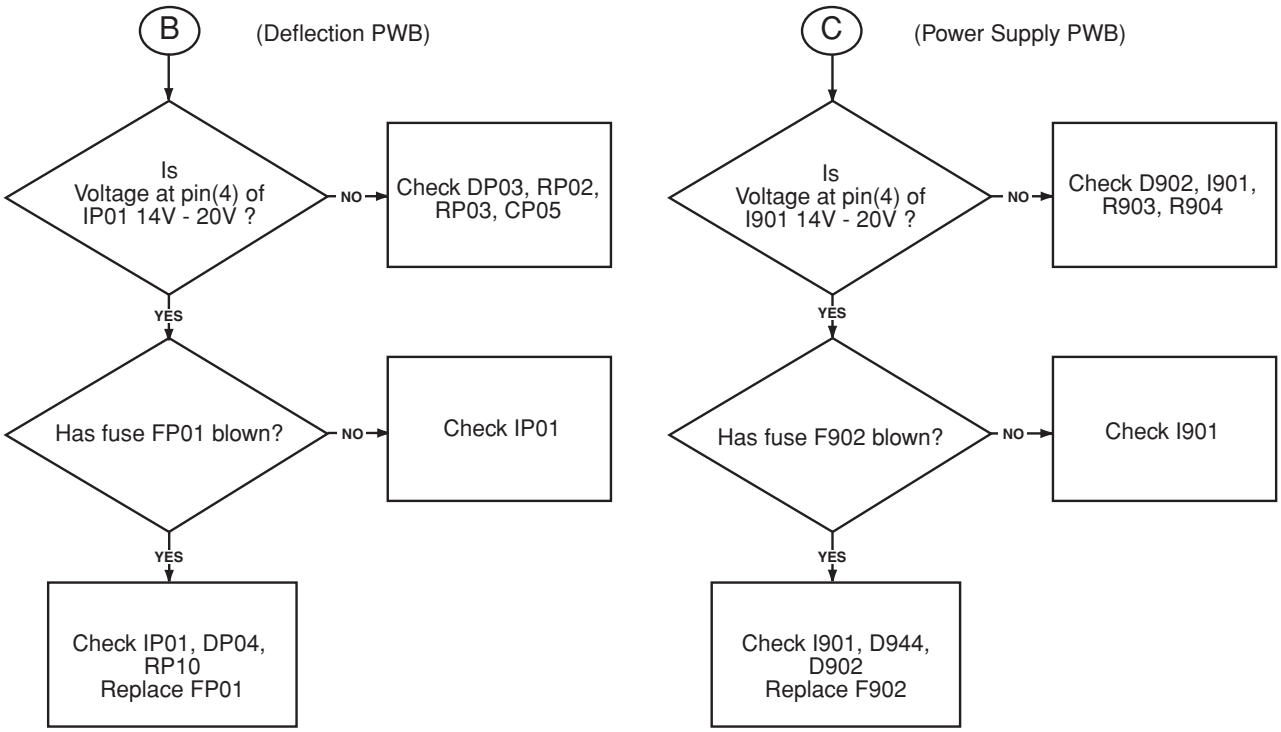
TROUBLE SHOOTING FLOWCHART

1. No raster and no power (How to check Diagnosis LED)

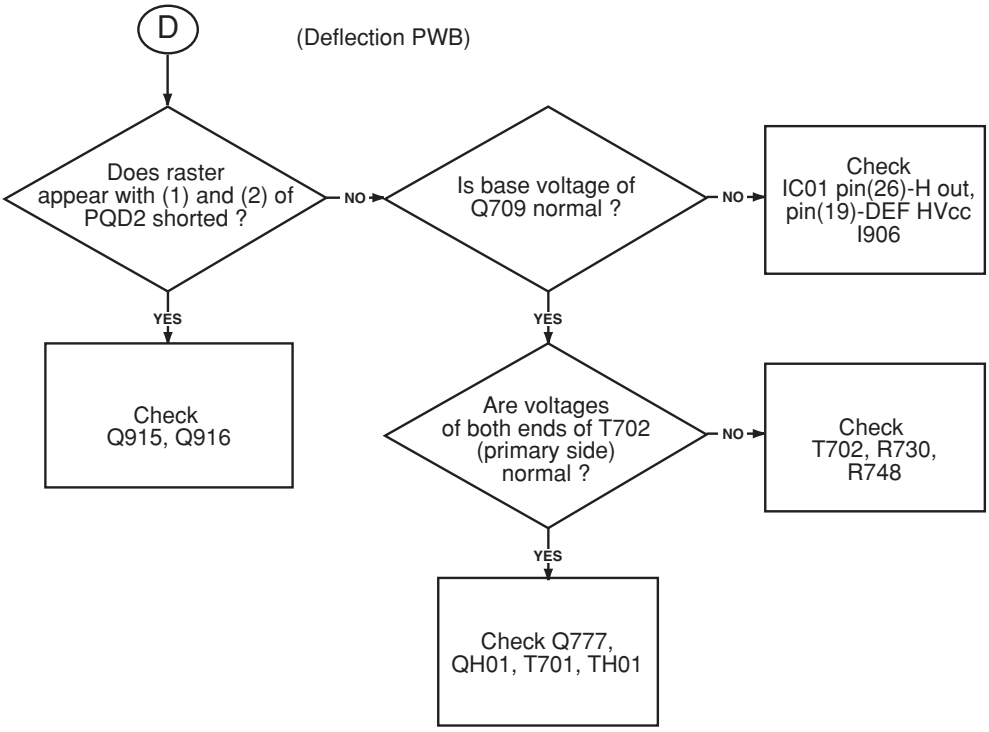

No raster
Is Power Indicator Red LED "ON"? DM03 (CONTROL)
NO
YES
A
NO
Is click sound of relay heard? S901
YES
Check DIAGNOSIS Red LED (DEFLECTION)
B
NO
Is Red LED "BLINK"? PROTECTION DP06 (DEF.)
YES
1. Turn OFF power SW.
2. Wait for 3 seconds.
3. Turn ON again after several seconds, and carefully observe green LED's.
Did green LED turn OFF same time?
NO
YES
D
Is Voltage at (+) and (-) of C936 5.1V?
NO
C
YES
E
(DEFLECTION PWB)
Find which LED's going to dark or OFF. (Other LED's are going to OFF little bit later or same time.)
(POWER PWB)
Find which LED's going to dark or OFF. (Other LED's are going to OFF little bit later or same time.)
(POWER SUPPLY PWB)
(POW) D912 Audio Check D910, IA05, etc.
(POW) D913 Audio (AC3) Check D911, IJ01, IJ02, etc.
(DEFLECTION PWB)
(DEF) DP23 (+115V) Check FP05, DP15 Q777, QH01 TH01, T701, etc.
(DEF) DP35 +28V line Check FP04, DP12, etc.
(DEF) DP11 SW+9V line Check FP03, DP11, IP04, etc.
(DEF) DP37 SW+5V line Check FP07, DP07, IP05, etc.

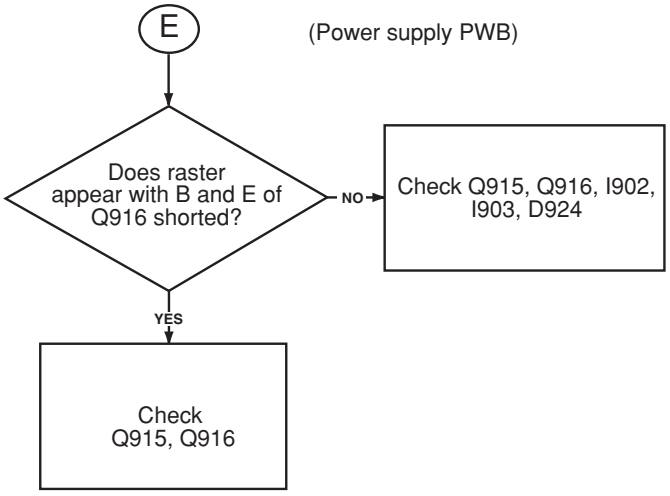
TROUBLE SHOOTING FLOWCHART





TROUBLE SHOOTING FLOWCHART



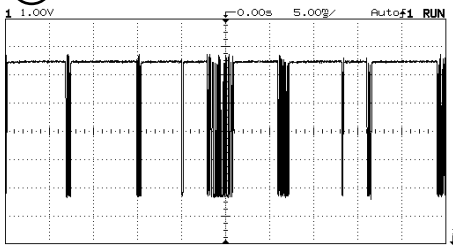


WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

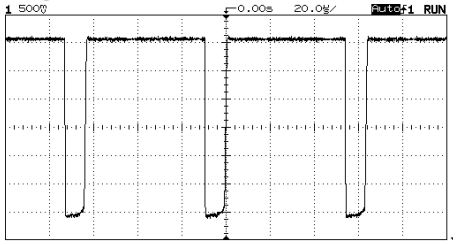
DP14G **DP17**

(1) I001 Pin 2



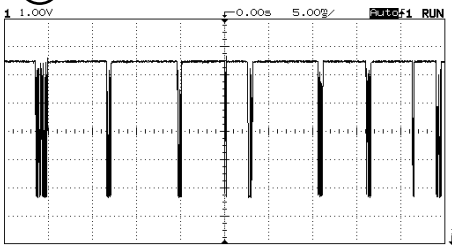
DP14G **DP17**

(2) I001 Pin 24



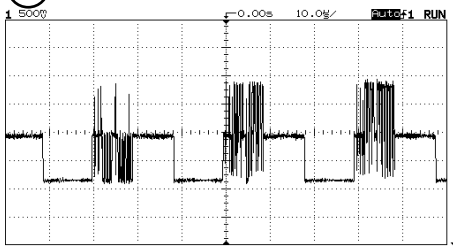
DP14G **DP17**

(3) I001 Pin 3



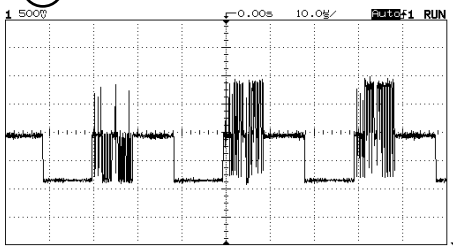
DP14G **DP17**

(4) I001 Pin 37



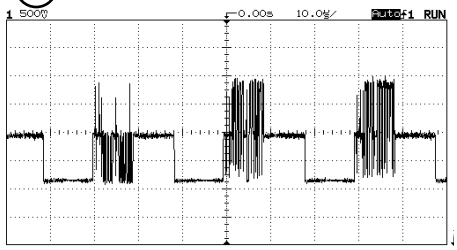
DP14G **DP17**

(5) I001 Pin 38



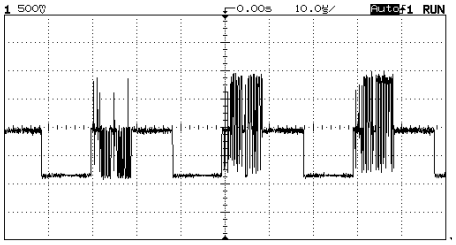
DP14G **DP17**

(6) I001 Pin 39



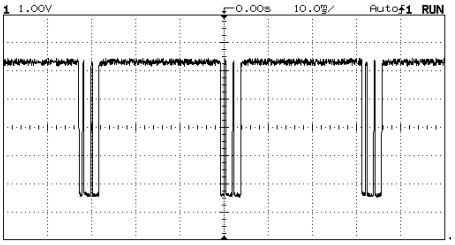
DP14G **DP17**

(7) I001 Pin 45



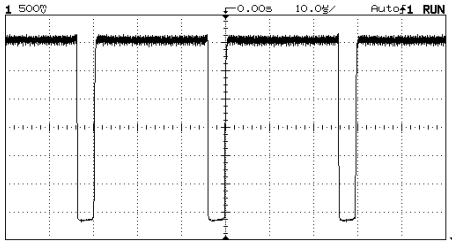
DP14G **DP17**

(8) I001 Pin 46



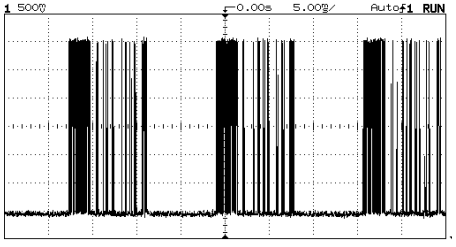
DP14G **DP17**

(9) I001 Pin 49



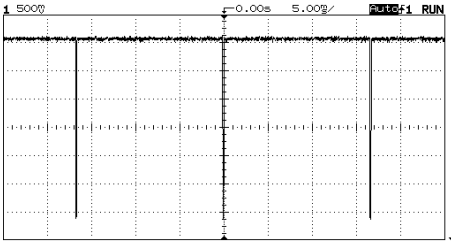
DP14G **DP17**

(10) I001 Pin 51



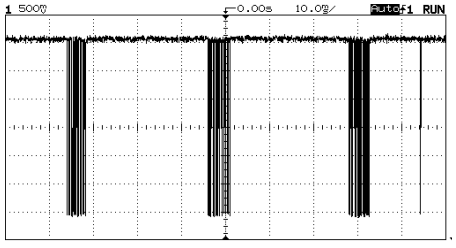
DP14G **DP17**

(11) I001 Pin 55



DP14G **DP17**

(12) I001 Pin 58

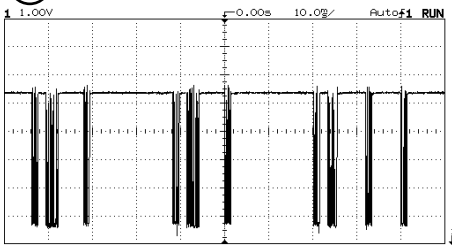


WAVEFORMS AT EACH SECTION

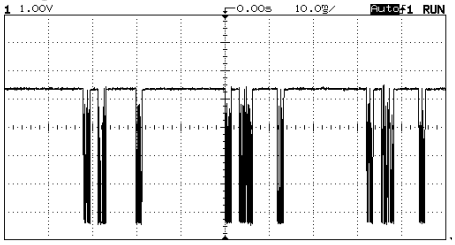
Numbers inside circle correspond to locations shown in the circuit diagram.

DP14G **DP17** **DP14G** **DP17**

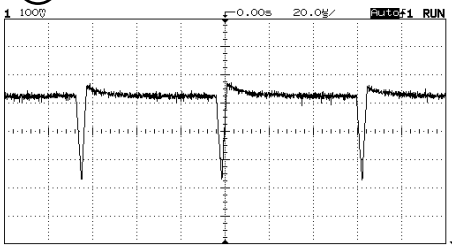
(13) I001 Pin 59



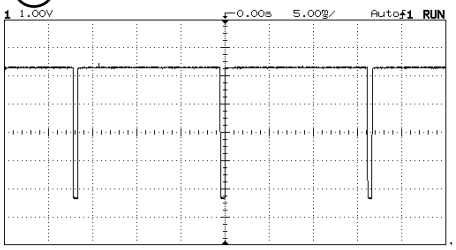
(14) I001 Pin 60



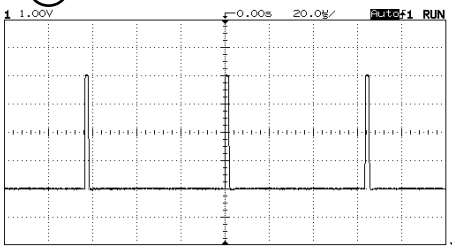
(15) I501 Pin 10



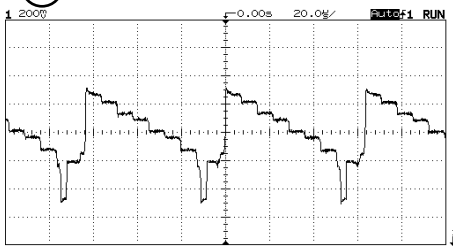
(16) I501 Pin 13



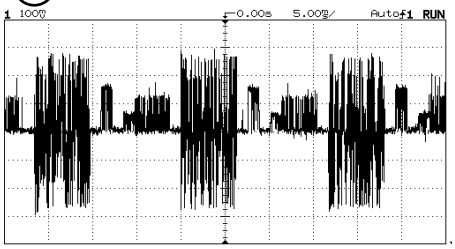
(17) I501 Pin 14



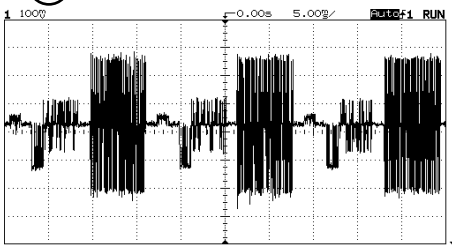
(18) I501 Pin 20



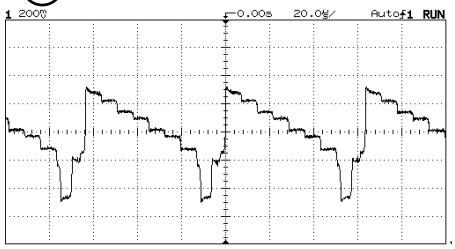
(19) I501 Pin 21



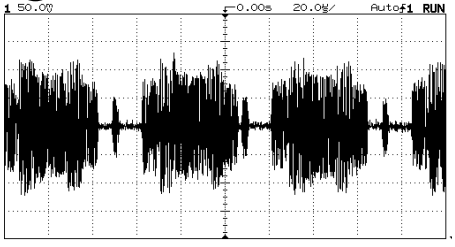
(20) I501 Pin 22



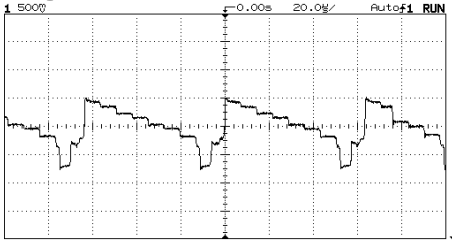
(21) I501 Pin 37



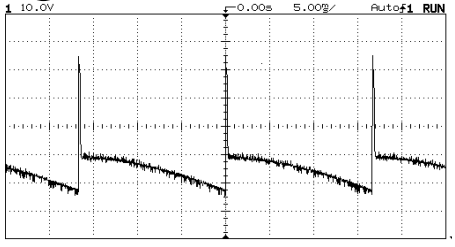
(22) I501 Pin 6



(23) I501 Pin 8



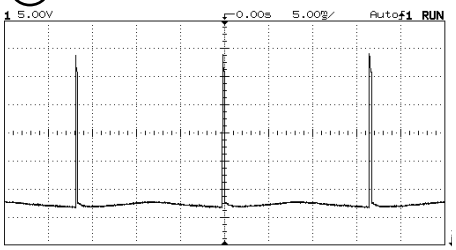
(24) I601 Pin 1



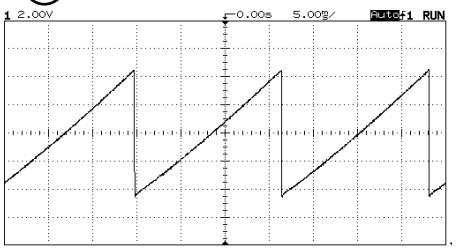
WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

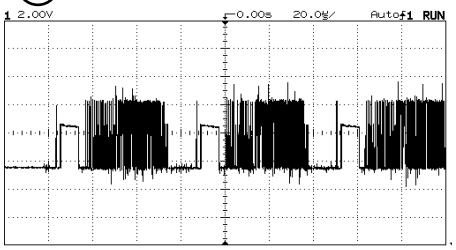
(25) I601 Pin 11



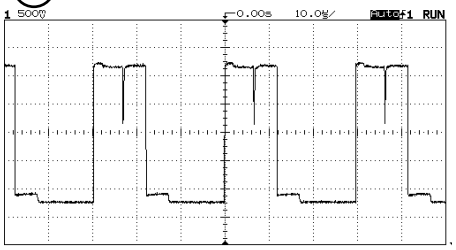
(26) I601 Pin 7



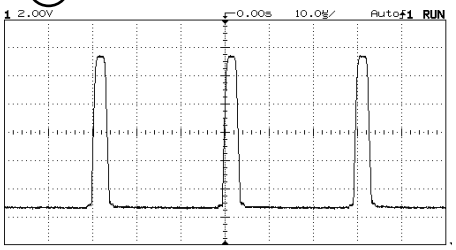
(27) I601 Pin 24



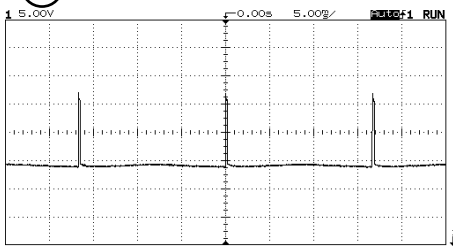
(28) PSD2 Pin 5



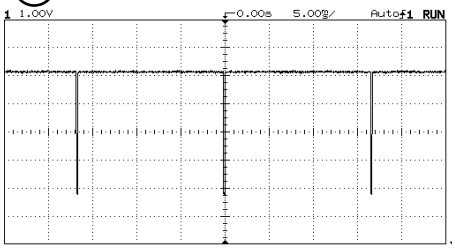
(29) PSD2 Pin 7



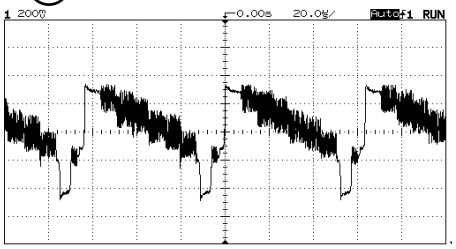
(30) PSD2 Pin 11



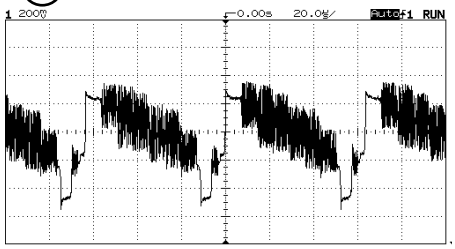
(31) PSD2 Pin 9



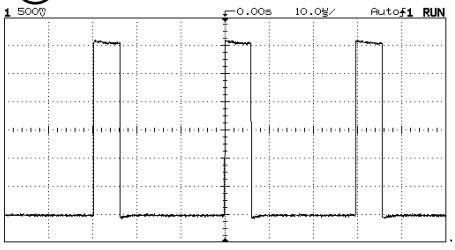
(32) U501 Pin 18



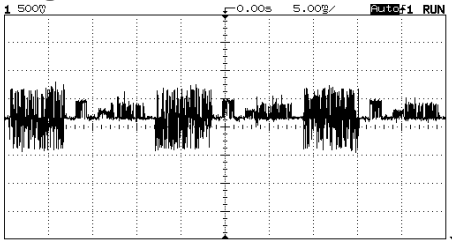
(33) U502 Pin 18



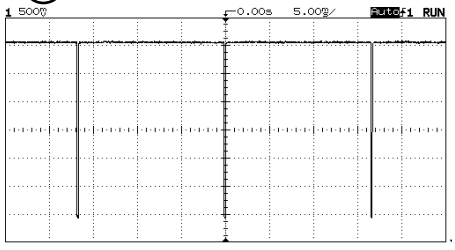
(34) UC01 Pin 12



(35) UC01 Pin 4



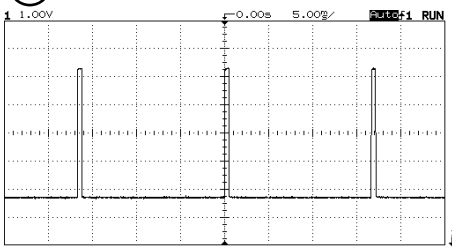
(36) UC01 Pin 6



WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram.

(37) UC01 Pin 7



DC Voltages

Circuit No.	Pin No.	Voltage DC
I001	1	0.0
	2	4.8
	3	4.8
	4	3.8
	5	3.5
	6	1.6
	7	3.5
	8	3.3
	9	2.9
	10	0.0
	11	0.0
	12	0.0
	13	0.0
	14	0.0
	15	0.0
	16	0.0
	17	0.0
	18	0.0
	19	0.0
	20	3.5
	21	0.0
	22	0.0
	23	1.8
	24	2.9
	25	3.4
	26	2.2
	27	2.5
	28	0.6
	29	0.0
	30	0.6
	31	2.5
	32	1.5
	33	3.5
	34	2.0
	35	1.7
	36	1.8
	37	0.0
	38	0.0
	39	0.0
	40	0.0
	41	1.6
	42	1.6
	43	0.0
	44	0.0
	45	4.7
	46	4.5
	47	1.9
	48	1.9
	49	3.0
	50	3.5
	51	0.0
	52	3.5
	53	3.2
	54	3.5

Signal (1/4)

Circuit No.	Pin No.	Voltage DC
I001	55	3.5
	56	0.0
	57	3.4
	58	3.4
	59	4.6
	60	4.6
	61	3.5
	62	1.8
	63	1.8
	64	0.0
I002	1	3.5
	2	0.0
	3	3.5
I003	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	4.7
	6	4.7
	7	0.0
	8	5.1
I004	1	5.1
	2	0.0
	3	0.0
	4	3.5
	5	0.0
	6	0.0
	7	0.0
	8	0.0
	9	0.0
	10	0.0
	11	0.0
	12	0.0
	13	0.0
	14	0.0
	15	0.0
	16	5.1
	17	4.9
	18	0.0
	19	0.0
	20	5.1
I005	1	2.6
	2	2.3
	3	0.0
	4	0.0
	5	0.0
	6	0.0
	7	0.0
	8	0.0
	9	0.0
	10	0.0
	11	0.0
	12	2.9
	13	2.9

Circuit No.	Pin No.	Voltage DC
I005	14	2.9
	15	2.3
	16	8.9
I006	1	0.0
	2	4.9
	3	4.1
	4	4.1
	5	4.7
	6	0.4
	7	4.7
	8	0.0
	9	0.0
	10	4.9
	11	0.0
	12	0.0
	13	5.0
	14	4.8
	15	4.7
	16	5.0
I007	1	0.0
	2	0.3
	3	0.4
	4	1.9
	5	0.4
	6	0.4
	7	0.4
	8	0.0
	9	5.0
	10	0.9
	11	0.0
	12	0.0
	13	0.0
	14	4.7
	15	4.7
	16	5.0
Q001	E	0.0
	B	0.0
	C	3.4
Q002	E	3.5
	B	3.4
	C	0.0
Q003	E	0.0
	B	0.8
	C	0.0
Q004	E	0.0
	B	0.0
	C	1.9
Q005	E	0.0
	B	0.0
	C	3.4
Q006	E	0.0
	B	-1.5
	C	3.0
Q007	E	0.0
	B	0.2
	C	2.9

Circuit No.	Pin No.	Voltage DC
Q008	E	5.7
	B	5.8
	C	0.5
Q009	E	5.2
	B	5.2
	C	0.0
Q010	E	0.0
	B	0.0
	C	2.9
Q011	E	5.8
	B	5.8
	C	0.6
Q012	E	5.8
	B	5.2
	C	0.0
Q013	E	4.6
	B	5.2
	C	8.9
Q014	E	4.6
	B	5.2
	C	8.9
Q015	E	3.0
	B	2.4
	C	0.0
Q016	E	2.4
	B	3.0
	C	8.9
Q017	E	0.0
	B	0.8
	C	0
Q018	E	3.5
	B	2.8
	C	3.4
Q019	E	0.0
	B	0.4
	C	1.9
Q020	E	0.0
	B	0.4
	C	1.6
Q021	E	0.0
	B	0.0
	C	35.1
Q022	E	35.1
	B	34.9
	C	0.0
Q023	E	0.0
	B	0.0
	C	34.9
Q024	E	3.1
	B	3.1
	C	0.0
Q025	E	3.6
	B	4.1
	C	5.1
Q026	E	0.0
	B	0.7
	C	0.0

DC Voltages

Signal (2/4)

Circuit No.	Pin No.	Voltage DC
	1	0.0
	2	0.0
	3	1.6
	4	1.6
	5	1.6
	6	1.6
	7	1.6
	8	1.6
	9	1.6
	10	1.1
	11	2.9
	12	2.5
	13	1.3
	14	1.3
	15	1.3
	16	0.0
	17	2.6
	18	2.6
	19	1.9
	20	2.1
	21	0.7
	22	1.6
	23	0.0
	24	1.6
	25	2.1
	26	0.0
I301	27	0.0
	28	0.0
	29	0.0
	30	0.0
	31	1.6
	32	3.3
	33	0.0
	34	0.0
	35	0.0
	36	0.0
	37	0.0
	38	0.0
	39	0.0
	40	0.0
	41	0.0
	42	0.0
	43	0.0
	44	0.0
	45	3.3
	46	3.3
	47	1.9
	48	0.0

Circuit No.	Pin No.	Voltage DC
	49	0.0
	50	1.6
	51	0.0
	52	0.0
	53	3.4
	54	0.0
	55	0.0
	56	0.0
	57	3.3
	58	0.0
	59	4.6
	60	4.6
	61	0.0
	62	0.0
	63	0.0
	64	3.3
	65	0.0
	66	0.0
	67	0.0
	68	0.0
	69	0.0
	70	0.0
	71	0.0
I301	72	0.0
	73	0.0
	74	0.0
	75	0.0
	76	0.0
	77	0.0
	78	0.0
	79	0.0
	80	0.0
	81	3.3
	82	0.0
	83	0.0
	84	0.0
	85	1.1
	86	0.0
	87	0.0
	88	1.2
	89	0.9
	90	1.1
	91	1.6
	92	3.3
	93	0.0
	94	0.0
	95	3.3
	96	0.0

Circuit No.	Pin No.	Voltage DC
	97	0.0
I301	98	0.6
	99	1.6
	100	3.3
	1	0.0
I302	2	0.0
	3	0.0
	4	3.3
	5	3.3
	1	5.0
	2	2.1
	3	2.1
	4	1.9
	5	2.1
	6	5.0
	7	1.8
	8	1.6
	9	1.6
	10	0.7
	11	0.0
	12	0.0
	13	2.9
	14	0.6
	15	0.0
	16	1.6
	17	1.6
	18	1.6
	19	1.6
I303	20	5.0
	21	0.0
	22	1.6
	23	1.6
	24	1.6
	25	1.6
	26	1.6
	27	2.5
	28	1.1
	29	1.1
	30	0.0
	21	1.3
	32	3.0
	33	1.9
	34	2.1
	35	0.0
	36	2.5
	37	1.9
	38	2.1
	39	2.1
	40	0.0

Circuit No.	Pin No.	Voltage DC
	1	4.0
	2	4.0
	3	4.0
	4	2.2
	5	0.0
	6	1.8
	7	6.0
	8	3.0
	9	0.0
	10	7.3
	11	0.0
	12	5.7
	13	4.8
	14	0.0
	15	1.0
	16	0.0
	17	0.6
	18	8.9
	19	8.9
	20	4.5
I501	21	4.3
	22	4.3
	23	0.0
	24	0.0
	25	5.8
	26	0.0
	27	0.0
	28	0.0
	29	0.0
	30	0.0
	31	5.5
	32	0.0
	33	0.0
	34	4.6
	35	0.0
	36	0.0
	37	2.2
	38	2.8
	39	0.0
	40	0.0
	41	5.0
	42	5.0
	43	0.0
	44	3.1
	45	0.0
	46	3.8
	47	2.3
	48	2.5

DC Voltages

Circuit No.	Pin No.	Voltage DC
I502	1	2.5
	2	0.0
	3	1.8
	4	0.0
	5	1.8
	6	1.8
	7	0.0
	8	2.4
	9	2.8
	10	0.0
	11	2.5
	12	0.0
	13	5.0
	14	2.5
	15	0.0
	16	2.5
I503	1	0.0
	2	0.2
	3	5.0
	4	4.7
	5	0.0
	6	0.0
	7	0.0
	8	0.0
	9	0.0
	10	4.9
	11	4.9
	12	5.0
	13	0.3
	14	0.0
	15	4.7
	16	5.0
Q301	E	2.0
	B	2.3
	C	3.1
Q302	E	3.3
	B	3.1
	C	0.0
Q303	E	0.0
	B	0.0
	C	2.8
Q304	E	0.4
	B	0.0
	C	0.0

Circuit No.	Pin Name	Voltage DC
Q305	E	0.0
	B	0.0
	C	1.7
Q306	E	0.0
	B	0.0
	C	0.0
Q307	E	3.0
	B	3.6
	C	8.9
Q308	E	2.5
	B	1.9
	C	0.0
Q309	E	0.0
	B	0.4
	C	0.0
Q310	E	0.0
	B	0.4
	C	1.6
Q311	E	1.7
	B	1.6
	C	1.2
Q312	E	1.1
	B	1.2
	C	1.7
Q313	E	0.0
	B	0.0
	C	0.0
Q314	E	1.2
	B	1.8
	C	8.3
Q315	E	8.9
	B	8.3
	C	5.2
Q316	E	4.6
	B	0.0
	C	8.9
Q317	E	2.7
	B	2.1
	C	0.0

Circuit No.	Pin Name	Voltage DC
Q501	E	0.0
	B	0.8
	C	0.0
Q504	E	0.0
	B	0
	C	4.9
Q505	E	1.6
	B	2.2
	C	0.0
Q551	E	4.9
	B	4.3
	C	0.0
Q552	E	4.9
	B	4.3
	C	0.0
Q553	E	5.1
	B	4.5
	C	0
Q554	E	4.8
	B	0
	C	8.9
Q555	E	3.3
	B	0.0
	C	8.9
Q556	E	0
	B	0
	C	8.9
Q557	E	3.2
	B	3.8
	C	0.0
Q558	E	1.2
	B	1.8
	C	8.9

Circuit No.	Pin Name	Voltage DC
Q559	E	0.0
	B	0.7
	C	0.0
Q560	E	5.2
	B	5.0
	C	8.9
Q561	E	4.1
	B	3.5
	C	0.0
Q562	E	5.2
	B	5.0
	C	8.9
Q563	E	4.2
	B	3.6
	C	0.0
Q564	E	2.3
	B	1.7
	C	0.0

DC Voltages

Signal (3/4)

Circuit No.	Pin No.	Voltage DC
IC01	1	1.6
	2	5.5
	3	5.3
	4	5.2
	5	5.1
	6	0.0
	7	0.2
	8	5.2
	9	5.2
	10	5.2
	11	7.1
	12	3.3
	13	4.8
	14	2.1
	15	3.3
	16	3.3
	17	1.6
	18	1.6
	19	9.2
	20	6.7
	21	5.5
	22	2.9
	23	2.6
	24	1.2
	25	0.0
	26	1.4
	27	5.1
	28	0.2
	29	2.2
	30	4.6
	31	4.6
	32	0.0
	33	4.1
	34	4.1
	35	4.1
	36	0.6
	37	4.1
	38	4.1
	39	4.1
	40	9.2
	41	2.7
	42	2.7
	43	2.7
	44	0.0
	45	9.2
	46	4.9
	47	4.9
	48	4.7
	49	0.0
	50	0.0

Circuit No.	Pin No.	Voltage DC
IC01	51	0.0
	52	0.0
	53	5.8
	54	4.2
	55	9.2
	56	5.6
IC02	1	7.2
	2	0.0
	3	5.0
IC03	1	4.2
	2	0.0
	3	3.4
IC04	1	5.0
	2	0.0
	3	2.5
QC01	E	0.0
	B	0.6
	C	1.7
QC02	E	0.5
	B	0.6
	C	1.7
QC03	E	0.5
	B	0.6
	C	0.0
QC04	E	3.5
	B	4.1
	C	9.2
QC05	E	3.4
	B	4.0
	C	9.2
QC06	E	3.5
	B	4.1
	C	0.0
QC07	E	1.1
	B	1.2
	C	1.8
QC08	E	0.0
	B	1.2
	C	0.0
QC09	E	1.1
	B	1.1
	C	1.8

Circuit No.	Pin Name	Voltage DC
QC10	E	0.4
	B	0.0
	C	9.2
QC11	E	9.2
	B	9.2
	C	1.0
QC12	E	0.0
	B	0.0
	C	1.8
QC13	E	1.6
	B	0.0
	C	0.0
QC14	E	1.2
	B	0.0
	C	9.2
QC15	E	1.2
	B	0.6
	C	9.2
QC16	E	0.0
	B	0.0
	C	9.2
QC17	E	0.0
	B	0.0
	C	9.2
QC18	E	6.9
	B	7.5
	C	9.2
QC19	E	0.7
	B	0.0
	C	0.0
QC20	E	0.7
	B	0.0
	C	0.0
QC21	E	0.7
	B	0.0
	C	0.0
QC22	E	0.7
	B	0.0
	C	0.0
QC23	E	0.7
	B	0.0
	C	0.0

Circuit No.	Pin Name	Voltage DC
QC24	E	0.7
	B	0.0
	C	0.0
QC26	E	3.5
	B	4.2
	C	9.3
QC30	E	3.3
	B	2.6
	C	0.0
QC31	E	8.0
	B	0.0
	C	3.3
QC35	E	3.3
	B	2.6
	C	0.0
QC36	E	8.0
	B	0.0
	C	0.0
QC40	E	3.4
	B	2.7
	C	0.0
QC41	E	0.0
	B	7.3
	C	3.4
QC42	E	0.0
	B	0.4
	C	0.0

DC Voltages

Signal (4/4)

Circuit No.	Pin Name	Voltage DC
IJ01	1	1.6
	2	0.0
	3	0.0
	4	0.0
	5	1.6
	6	10.8
	7	14.8
	8	5.1
	9	31.7
	10	0.0
	11	4.3
	12	14.4

Circuit No.	Pin Name	Voltage DC
QJ01	E	0.0
	B	0.0
	C	0.0
QJ02	E	0.0
	B	0.0
	C	0.0
QJ03	E	0.0
	B	0.0
	C	4.2
QJ04	E	0.0
	B	0.0
	C	10.8

Circuit No.	Pin No.	Voltage DC
QH01	E	0.4
	B	3.8
	C	90.0
QH02	E	0.0
	B	0.5
	C	3.8
QH03	E	0.0
	B	0.5
	C	59.1

Deflection

Circuit No.	Pin No.	Voltage DC
I601	1	14.3
	2	26.6
	3	4.9
	4	6.7
	5	4.5
	6	0.0
	7	5.3
	8	6.1
	9	4.5
	10	27.0
	11	1.0
IH01	1	5.2
	2	11.6
	3	0.8
	4	2.5
	5	1.7
	6	0.0
	7	0.9
	8	0.0
	9	7.1
	10	7.1
	11	7.1
	12	7.1
	13	2.5
	14	1.9
	15	5.0
	16	0.0

Circuit No.	Pin No.	Voltage DC
QN01	E	0.0
	B	0.0
	C	0.5
QN02	E	11.4
	B	11.4
	C	0.0
QN03	E	0.0
	B	0.0
	C	11.4
QN04	E	0.5
	B	0.9
	C	11.4
QN05	E	0.0
	B	0.0
	C	11.5
QN06	E	0.0
	B	0.4
	C	0.0

Circuit No.	Pin Name	Voltage DC
Q601	E	0.0
	B	0.3
	C	4.2
Q602	E	0.0
	B	0.0
	C	0.5
Q603	E	0.0
	B	0.0
	C	5.2
Q604	E	27.2
	B	27.0
	C	0.0
Q701	E	92.1
	B	93.1
	C	115.5
Q703	E	2.3
	B	3.0
	C	93.1
Q704	E	0.0
	B	0.5
	C	14.1
Q705	E	0.0
	B	0.7
	C	0.0
Q706	E	1.3
	B	0.8
	C	11.6
Q707	E	0.0
	B	0.7
	C	0.0
Q708	E	0.0
	B	0.0
	C	11.1
Q709	E	0.0
	B	0.4
	C	11.1
Q710	E	0.0
	B	0.3
	C	0.0
Q777	E	0.0
	B	0.0
	C	90.0

Power Deflection

Circuit No.	Pin Name	Voltage DC
IP01	1	2.0
	2	0.0
	3	161.3
	4	15.4
	5	0.0
IP02	1	12.0
	2	11.1
	3	3.0
	4	15.4
IP03	1	115.6
	2	11.0
	3	0.0
IP04	1	11.7
	2	9.1
	3	0.0
	4	1.9
IP05	1	7.4
	2	5.1
	3	0.0
	4	1.9
IP06	1	7.4
	2	6.3
	3	0.0
	4	2.1

Circuit No.	Pin Name	Voltage DC
QP02	E	116.0
	B	115.5
	C	1.3
QP03	E	9.1
	B	9.1
	C	0.0

DC Voltages

SRS/BBE

Circuit No.	Pin No.	Voltage DC
IA01	1	4.5
	2	4.5
	3	4.5
	4	4.5
	5	4.5
	6	4.5
	7	4.5
	8	4.5
	9	0.8
	10	4.5
	11	1.2
	12	1.2
	13	4.5
	14	4.5
	15	0.0
	16	8.9
	17	0.0
	18	4.8
	19	1.4
	20	1.4
	21	4.5
	22	4.5
	23	4.5
	24	4.5
	25	4.5
	26	4.5
	27	4.5
	28	4.5
	29	4.5
	30	4.5
IA02	1	0.0
	2	4.5
	3	4.5
	4	4.5
	5	4.5
	6	4.5
	7	4.5
	8	4.5
	9	4.5
	10	8.9
	11	0.0
	12	4.5
	13	0.0
	14	0.0
	15	4.5
	16	4.5
	17	4.5
	18	4.5
	19	0.0

Circuit No.	Pin No.	Voltage DC
IA02	20	4.5
	21	4.5
	22	4.5
	23	4.5
	24	4.5
IA07	1	4.9
	2	4.9
	3	4.9
	4	0.0
	5	4.8
	6	4.8
	7	4.8
	8	8.9

Circuit No.	Pin Name	Voltage DC
QA01	E	1.4
	B	2.1
	C	8.2
QA02	E	8.9
	B	8.2
	C	5.0
QA03	E	1.4
	B	2.1
	C	8.2
QA04	E	8.9
	B	8.2
	C	4.9
QA05	E	0.0
	B	0.0
	C	0.0

VM

Circuit No.	Pin Name	Voltage DC
QE01	E	2.6
	B	3.3
	C	12.5
QE02	E	12.5
	B	11.8
	C	27.4
QE03	E	12.5
	B	13.1
	C	22.1
QE04	E	21.4
	B	22.1
	C	27.4
QE05	E	1.6
	B	2.2
	C	15.3
E07	E	16.0
	B	15.4
	C	0.0
QE08	E	15.4
	B	16.0
	C	27.4
QE10	E	14.8
	B	14.4
	C	27.4
QE11	E	14.6
	B	14.0
	C	0.0
QE22	E	214.5
	B	214.0
	C	10.6
QE23	E	213.4
	B	213.0
	C	121.6
QE24	E	121.6
	B	134.1
	C	116.4
QE25	E	16.6
	B	17.1
	C	116.0
QE26	E	0.9
	B	1.5
	C	16.6
QE35	E	11.8
	B	12.3
	C	155.0
QE36	E	11.8
	B	12.5
	C	27.4

FOCUS

Circuit No.	Pin Name	Voltage DC
QF03	E	0.6
	B	1.2
	C	5.7
QF04	E	5.6
	B	5.7
	C	0.7
QF05	E	0.3
	B	0.7
	C	11.2
QF06	E	11.4
	B	11.6
	C	302.0
QF07	E	401.0
	B	301.0
	C	788.0
QF08	E	10.2
	B	10.7
	C	354.0

DC Voltages

Power supply

Circuit No.	Pin No.	Voltage DC
I901	1	163.9
	2	0.0
	3	0.0
	4	16.9
	5	2.4
I902	1	5.2
	2	4.3
	3	3.5
	4	17.5
I903	1	5.0
	2	4.3
	3	0.0
	4	16.8
I904	1	4.8
	2	5.5
	3	5.2
	4	2.4
I906	1	0.0
	2	1.9
	3	9.5
	4	9.1
	5	11.0

Convergence

Circuit No.	Pin No.	Voltage DC
IK01	1	11.6
	2	0.0
	3	5.1
IK02	1	4.0
	2	5.0
	3	0.0
IK04	1	0.0
	2	0.0
	3	-29.3
	4	-30.4
	5	31.0
	6	0.0
	7	0.0
	8	-26.9
	9	0.0
	10	27.2
	11	0.0
	12	-26.9
	13	0.0
	14	0.0
	15	0.0
	16	0.0
	17	-26.9
	18	0.0
IK05	1	0.0
	2	0.0
	3	-29.3
	4	-30.4
	5	31.0
	6	0.0
	7	0.0
	8	-26.9
	9	0.0
	10	27.2
	11	0.0
	12	-26.9
	13	0.0
	14	0.0
	15	0.0
	16	0.0
	17	-26.9
	18	0.0

Circuit No.	Pin No.	Voltage DC
QK01	E	-7.1
	B	-6.5
	C	-5.3
QK02	E	0.6
	B	0.0
	C	0.0
QK03	E	0.6
	B	0
	C	-5.8
QK06	E	0
	B	0
	C	5.1
QK07	E	0
	B	0
	C	5.1
QK08	E	0.0
	B	0.0
	C	5.1

Sensor

Circuit No.	Pin No.	Voltage DC
QL10	E	5.1
	B	4.7
	C	0
QL11	E	5.2
	B	4.7
	C	1.6
QL16	E	5.1
	B	4.7
	C	0.0
QL17	E	0.5
	B	4.7
	C	0.0

DC Voltages

Terminal

Circuit No.	Pin No.	Voltage DC
IX01	1	3.9
	2	4.4
	3	4.0
	4	4.4
	5	4.4
	6	8.3
	7	0.0
	8	3.9
	9	4.4
	10	3.9
	11	4.4
	12	4.4
	13	0.0
	14	4.8
	15	3.9
	16	4.4
	17	3.9
	18	4.4
	19	4.4
	20	0.0
	21	4.8
	22	4.4
	23	4.4
	24	3.9
	25	4.4
	26	4.4
	27	0.0
	28	4.8
	29	4.4
	30	4.4
	31	4.4
	32	0.0
	33	4.7
	34	4.7
	35	0.0
	36	0.0
	37	4.4
	38	4.4
	39	3.5
	40	4.4
	41	4.2
	42	8.8
	43	4.4
	44	4.2
	45	4.4
	46	3.5
	47	4.4
	48	0.0

Circuit No.	Pin No.	Voltage DC
IX01	49	4.7
	50	4.4
	51	4.4
	52	4.4
	53	4.2
	54	4.4
	55	3.6
	56	4.0
	57	0.0
	58	4.3
	59	4.4
	60	3.9
	61	4.4
	62	4.4
	63	4.2
	64	4.4
IX02	1	6.3
	2	0.0
	3	3.8
	4	4.9
	5	8.7
IX03	1	4.0
	2	4.0
	3	4.0
	4	2.2
	5	0.0
	6	1.8
	7	5.9
	8	2.9
	9	0.0
	10	7.2
	11	0.0
	12	5.6
	13	4.7
	14	0.0
	15	1.0
	16	0.0
	17	0.6
	18	8.7
	19	8.7
	20	4.4
	21	4.4
	22	4.2
	23	8.7
	24	0.0
	25	5.7
	26	5.7
	27	5.5

Circuit No.	Pin No.	Voltage DC
IX03	28	0.0
	29	5.5
	30	5.5
	31	5.5
	32	0.6
	33	4.4
	34	4.5
	35	0.0
	36	0.0
	37	2.2
	38	0.0
	39	0.0
	40	2.7
	41	4.9
	42	4.9
	43	0.0
	44	3.1
	45	0.0
	46	3.7
	47	2.3
	48	2.2
IX04	1	2.8
	2	2.8
	3	2.8
	4	1.0
	5	1.0
	6	0.0
	7	2.8
	8	2.8
	9	2.8
	10	1.1
	11	1.1
	12	4.9
	13	3.4
	14	3.4
	15	3.2
	16	3.0
	17	0.0
	18	1.1
	19	0.0
	20	2.9
	21	0.0
	22	0.0
	23	0.0
	24	0.0
	25	2.5
	26	2.5
	27	2.3

Circuit No.	Pin No.	Voltage DC
IX04	28	4.9
	29	0.0
	30	4.6
	31	4.6
	32	0.0
	33	2.8
	34	2.8
	35	2.8
	36	1.1
	37	1.2
	38	2.2
	39	2.4
	40	4.9
	41	2.8
	42	2.8
	43	2.8
	44	1.1
	45	1.1
	46	0.0
	47	2.4
	48	0.0
IX05	1	2.8
	2	2.8
	3	2.8
	4	1.0
	5	1.0
	6	0.0
	7	2.8
	8	2.8
	9	2.8
	10	1.1
	11	1.1
	12	4.9
	13	3.4
	14	3.4
	15	3.2
	16	3.0
	17	0.0
	18	1.1
	19	0.0
	20	2.9
	21	0.0
	22	0.0
	23	0.0
	24	0.0
	25	2.5
	26	2.5
	27	2.3

DC Voltages

Circuit No.	Pin No.	Voltage DC
IX05	28	4.9
	29	0.0
	30	4.6
	31	4.6
	32	4.9
	33	2.8
	34	2.8
	35	2.8
	36	1.1
	37	1.2
	38	2.2
	39	2.4
	40	4.9
	41	2.8
	42	2.8
	43	2.8
	44	1.1
	45	1.1
	46	0.0
	47	2.4
	48	0.0
IX06	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	0.0
	6	0.0
	7	0.0
	8	0.0
	9	0.0
	10	0.0
	11	0.0
	12	0.0
	13	0.0
	14	0.0
	15	0.0
	16	5.0
IX07	1	0.0
	2	0.0
	3	0.0
	4	0.0
	5	0.0
	6	0.0
	7	0.0
	8	0.0
	9	0.0
	10	0.0
	11	0.0

Circuit No.	Pin No.	Voltage DC
IX07	12	0.0
	13	0.0
	14	0.0
	15	0.0
	16	5.0
IX08	1	0.0
	2	5.0
	3	4.7
	4	0.0
	5	4.8
	6	0.0
	7	0.0
	8	5.0
	9	0.0
	10	4.8
	11	0.0
	12	0.0
	13	0.0
	14	5.0
IX09	1	0.0
	2	5.0
	3	5.0
	4	5.0
	5	0.6
	6	0.0
	7	4.6
	8	0.0
	9	0.0
	10	0.0
	11	5.0
	12	4.4
	13	0.0
	14	0.0
	15	0.0
	16	5.0

Circuit No.	Pin No.	Voltage DC
QX01	E	3.5
	B	4.2
	C	8.8
QX02	E	2.9
	B	3.5
	C	8.8
QX03	E	3.7
	B	4.3
	C	8.8
QX04	E	3.6
	B	4.2
	C	8.8
QX05	E	3.5
	B	4.2
	C	8.8
QX06	E	3.7
	B	4.4
	C	8.8
QX07	E	3.6
	B	4.2
	C	8.8
QX08	E	4.9
	B	4.3
	C	0.0
QX09	E	4.6
	B	4.0
	C	0.0
QX10	E	5.0
	B	5.6
	C	8.8
QX11	E	6.0
	B	6.6
	C	8.8
QX12	E	6.2
	B	6.8
	C	8.8

Circuit No.	Pin Name	Voltage DC
QX13	E	5.0
	B	4.4
	C	0.0
QX14	E	4.8
	B	4.3
	C	0.0
QX15	E	4.8
	B	4.2
	C	0.0
QX16	E	2.6
	B	3.2
	C	4.9
QX17	E	2.5
	B	3.2
	C	4.9
QX18	E	2.9
	B	2.3
	C	0.0
QX19	E	3.2
	B	2.6
	C	0.0
QX20	E	3.2
	B	2.5
	C	0.0
QX21	E	2.9
	B	2.3
	C	0.0
QX22	E	3.2
	B	2.6
	C	0.0
QX23	E	3.2
	B	2.5
	C	0.0
QX24	E	5.2
	B	4.6
	C	0.0
QX36	E	0.5
	B	1.1
	C	9.2
QX37	E	0.0
	B	0.6
	C	5.5
QX40	E	0.0
	B	0.0
	C	0.0
QX41	E	0.0
	B	0.0
	C	0.0

DC Voltages

CPT

Circuit No.	Pin Name	Voltage DC
Q801	E	3.0
	B	3.5
	C	8.3
Q802	E	8.3
	B	8.6
	C	0.0
Q803	E	8.6
	B	9.1
	C	168.0
Q804	E	169.0
	B	168.4
	C	1.1
Q805	E	169.0
	B	170.0
	C	225.0
Q812	E	1.0
	B	1.7
	C	1.1
Q851	E	3.1
	B	3.5
	C	8.3
Q852	E	8.3
	B	8.6
	C	9.1

Circuit No.	Pin Name	Voltage DC
Q853	E	8.6
	B	9.1
	C	156.4
Q854	E	157.0
	B	156.0
	C	1.1
Q855	E	157.0
	B	157.0
	C	224.9
Q858	E	2.5
	B	1.8
	C	0.0
Q859	E	1.8
	B	2.5
	C	9.1
Q862	E	1.1
	B	1.8
	C	1.1
Q8A1	E	3.2
	B	3.8
	C	8.3
Q8A2	E	8.2
	B	8.6
	C	9.1
Q8A3	E	8.6
	B	9.1
	C	150.0
Q8A4	E	151.6
	B	150.8
	C	1.1
Q8A5	E	152.0
	B	152.0
	C	224.0
Q8A6	E	3.0
	B	3.0
	C	0.0
Q8A7	E	3.0
	B	3.7
	C	9.1
Q8C1	E	0.0
	B	0.0
	C	9.0
Q8C2	E	1.1
	B	0.0
	C	1.1

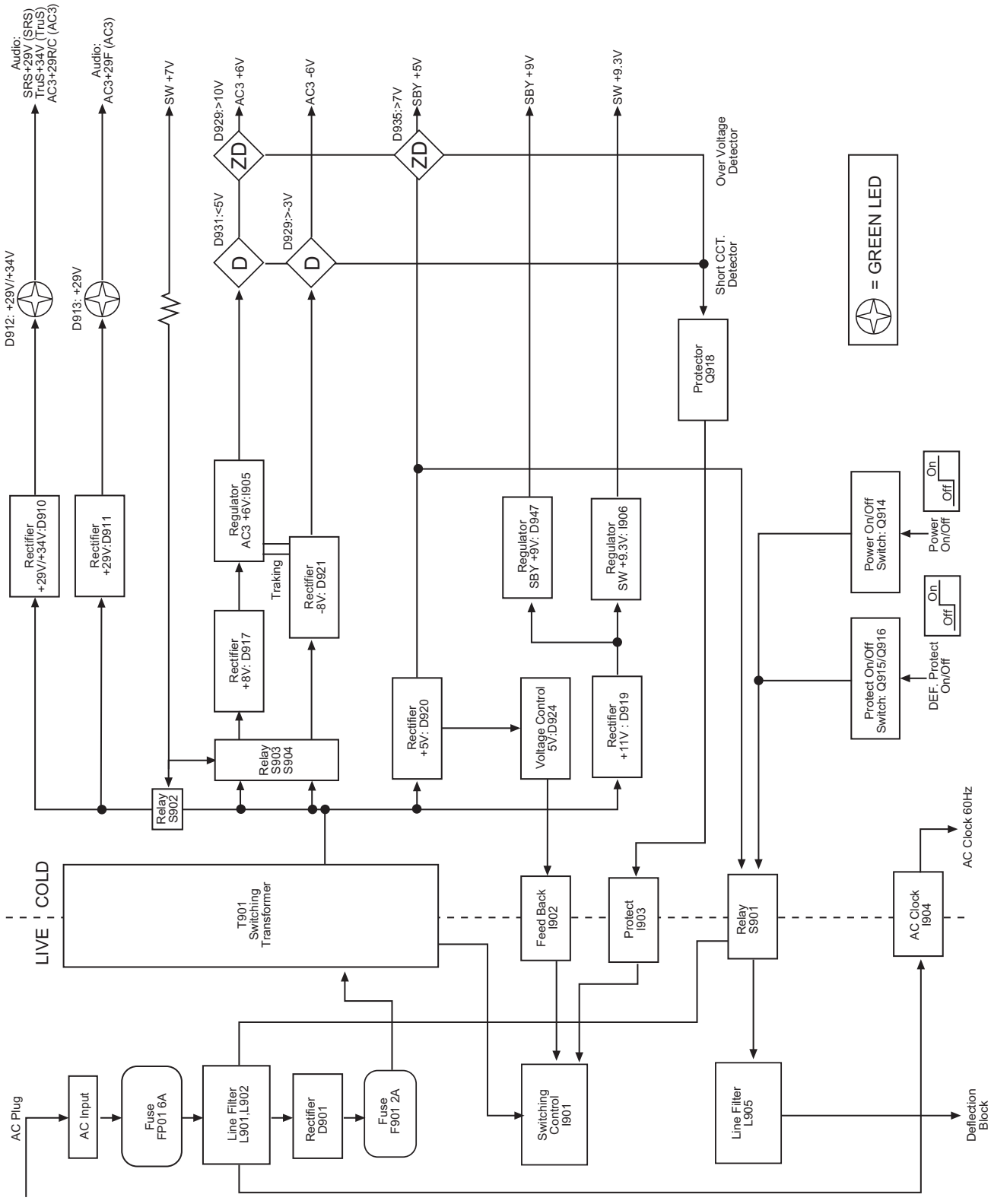
Power Supply

Circuit No.	Pin Name	Voltage DC
Q901	E	16.9
	B	16.9
	C	0.0
Q902	E	0.0
	B	0.0
	C	16.9
Q914	E	0.0
	B	0.9
	C	0.5
Q915	E	1.9
	B	1.9
	C	0.1
Q916	E	0.0
	B	0.1
	C	1.9
Q917	E	2.2
	B	2.5
	C	5.2
Q918	E	0.0
	B	0.0
	C	4.3
Q919	E	2.2
	B	2.2
	C	0.1
Q920	E	2.9
	B	3.5
	C	17.5

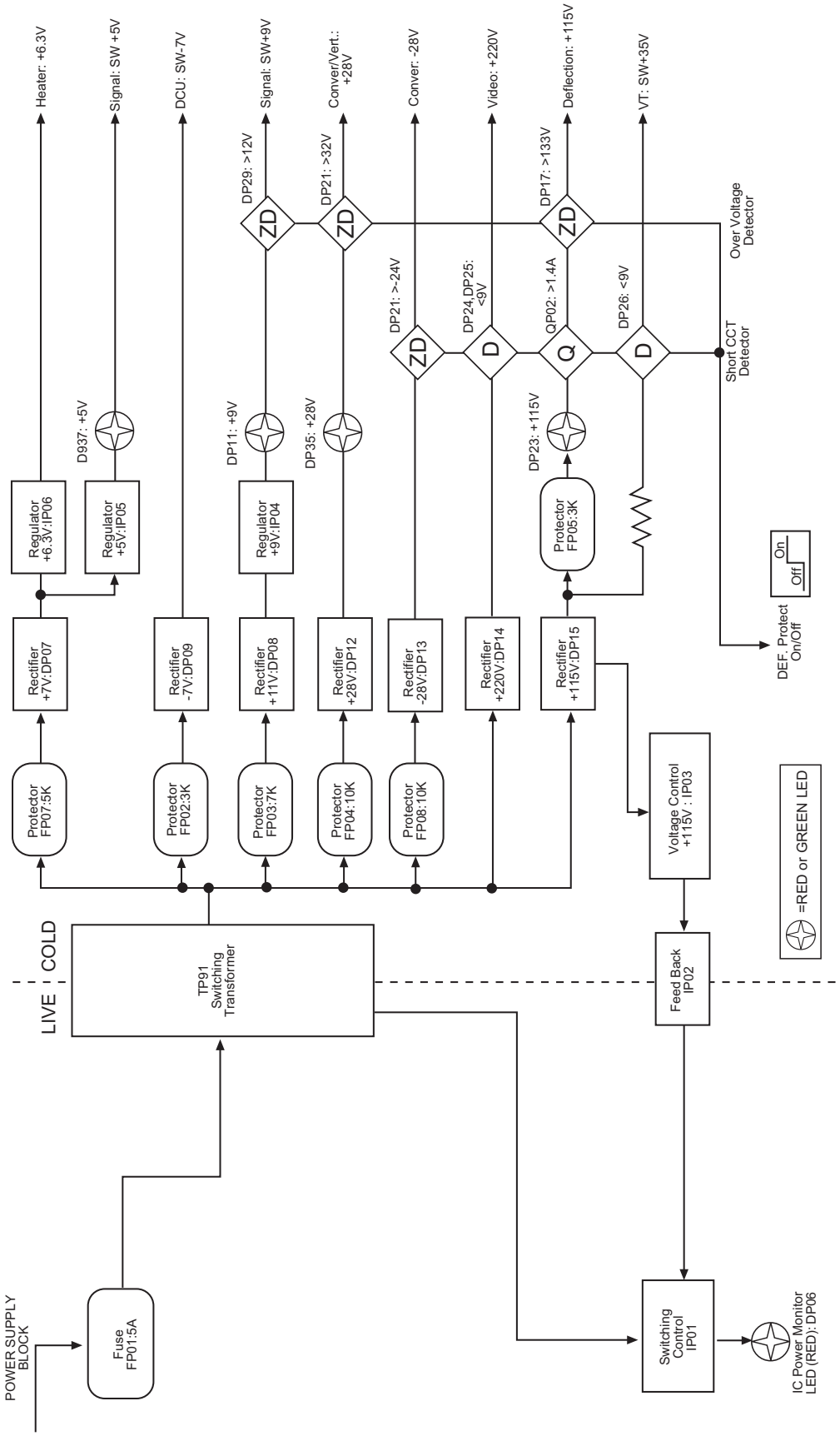
Control

Circuit No.	Pin Name	Voltage DC
QM01	E	0.0
	B	0.8
	C	0.0
QM03	E	1.8
	B	2.5
	C	9.0
QM04	E	1.9
	B	2.5
	C	8.9
QM05	E	0.0
	B	0.0
	C	5.2

DP1X Protection Circuit Block Diagram (Power Supply)



DP1X Protection Circuit Block Diagram (Deflection Supply)

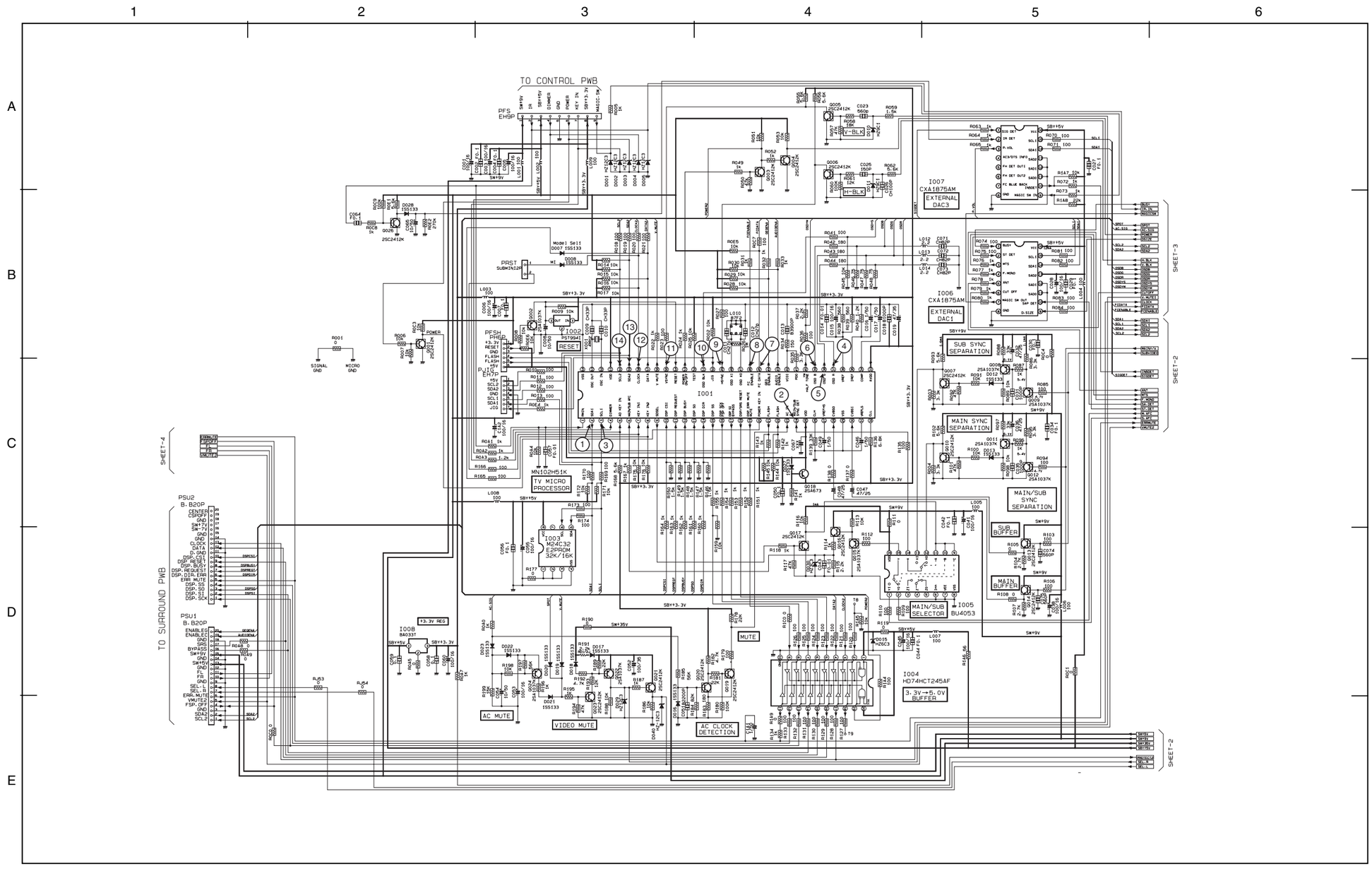


PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don t degrade the safety of the receiver through improper servicing.

CIRCUIT SCHEMATIC DIAGRAM

DP14G

SIGNAL 1/4
DP14G Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SIGNAL 1/4 DP14G Only

HOME

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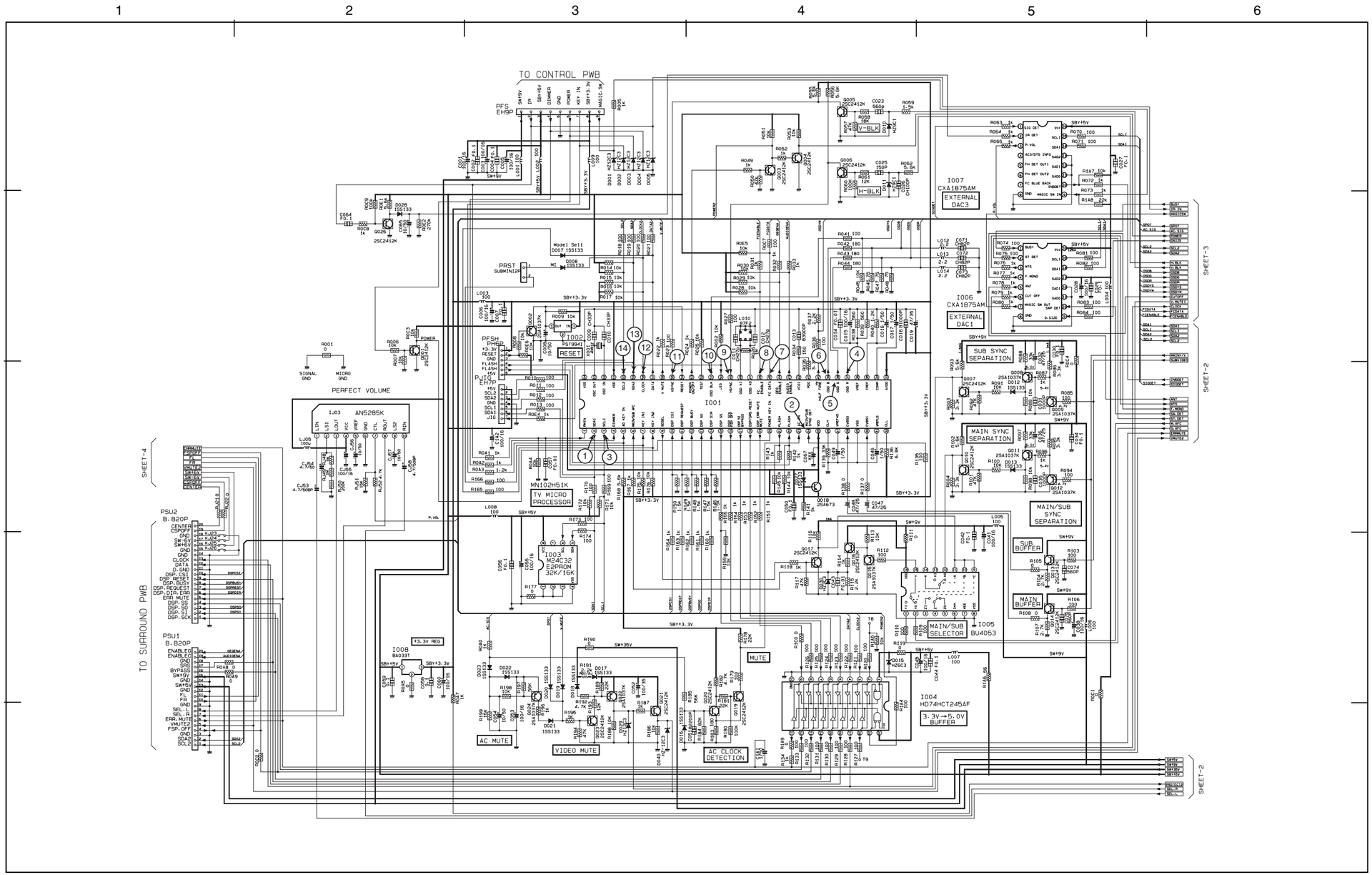
CIRCUIT SCHEMATIC DIAGRAM

SIGNAL 1/4
DP17 Only

DP17



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SIGNAL 1/4 DP17 Only

HOME

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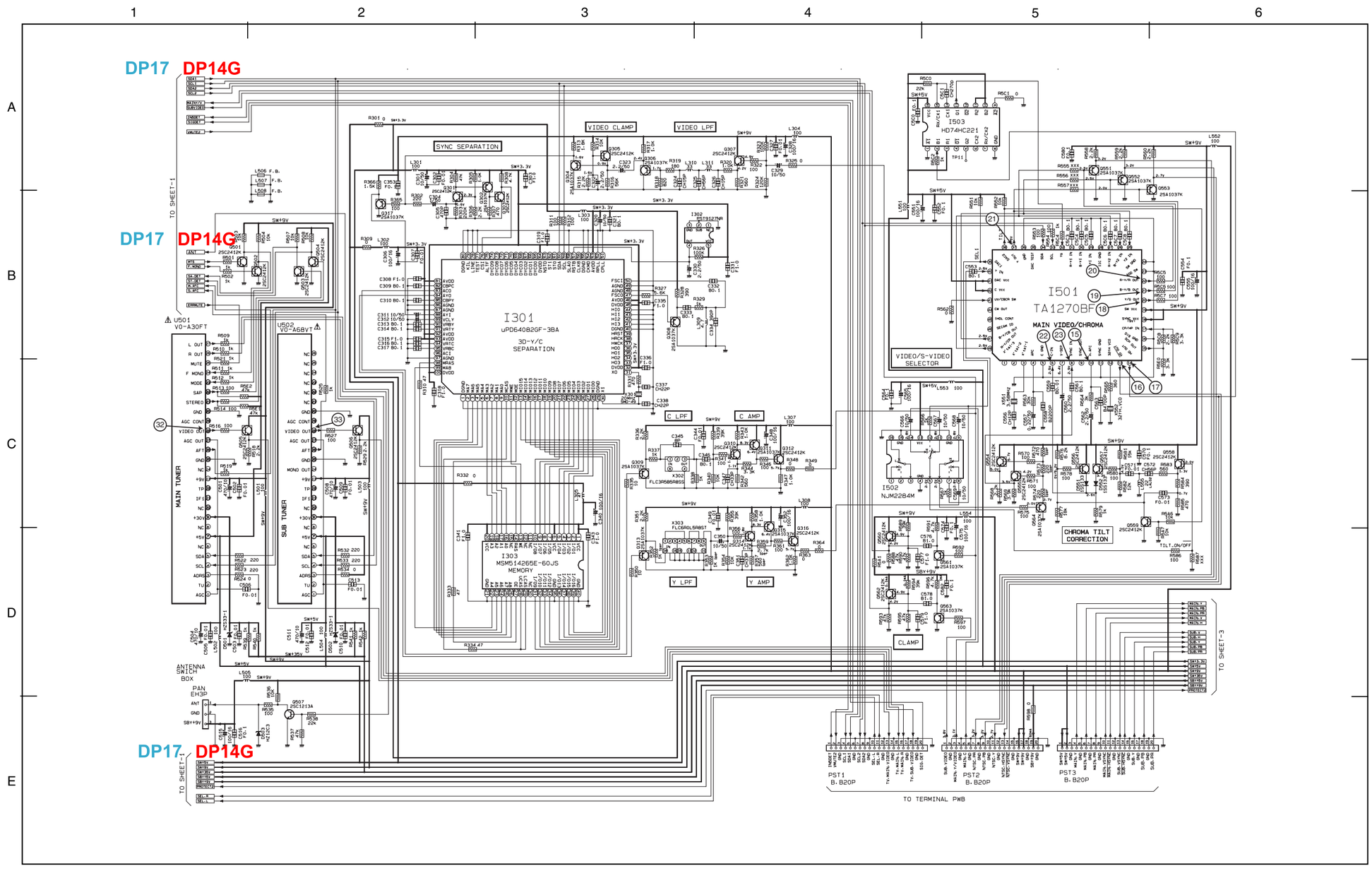
CIRCUIT SCHEMATIC DIAGRAM

SIGNAL 2/4



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SIGNAL 2/4

HOME

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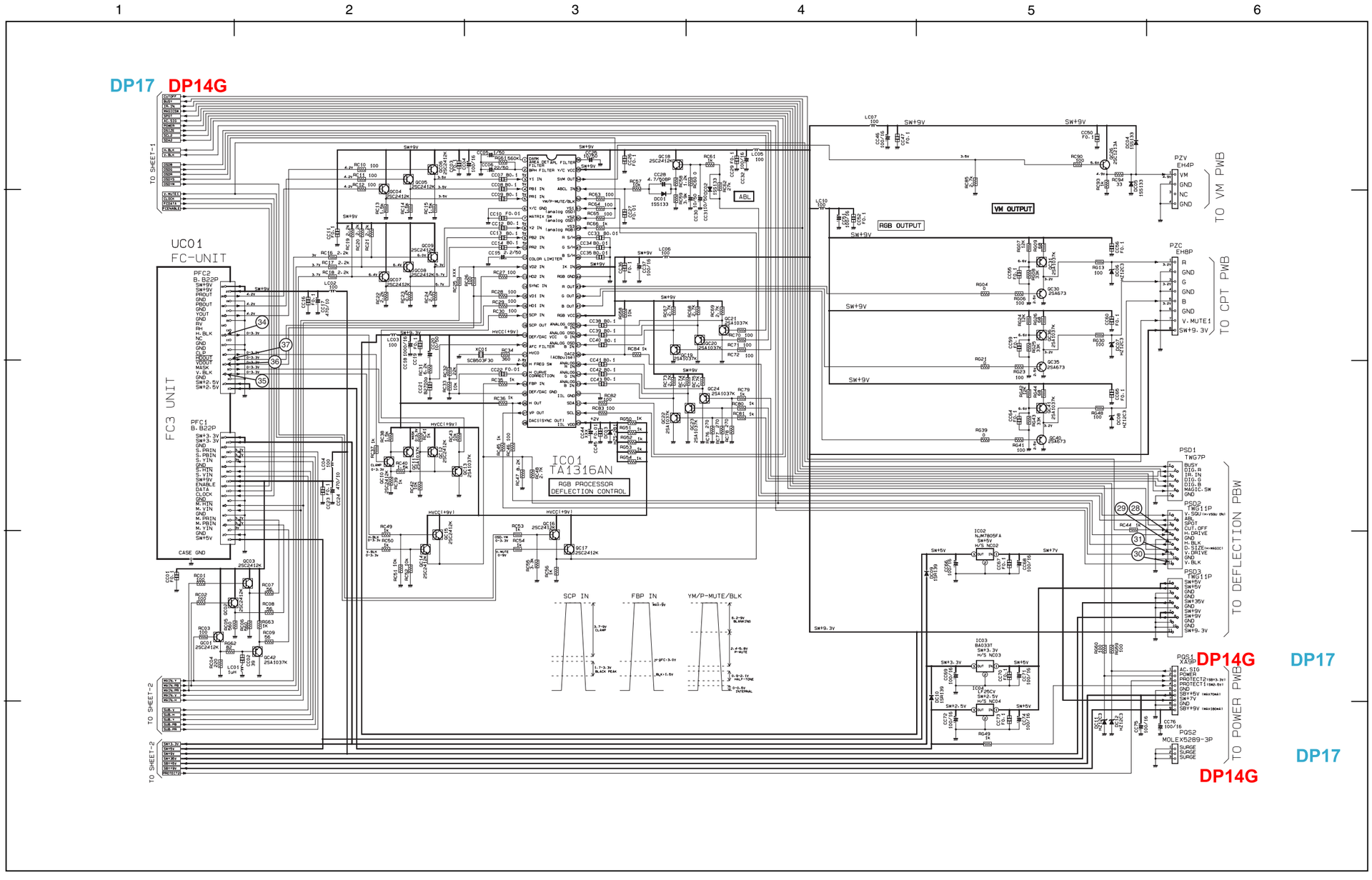
CIRCUIT SCHEMATIC DIAGRAM

SIGNAL 3/4



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SIGNAL 3/4

HOME

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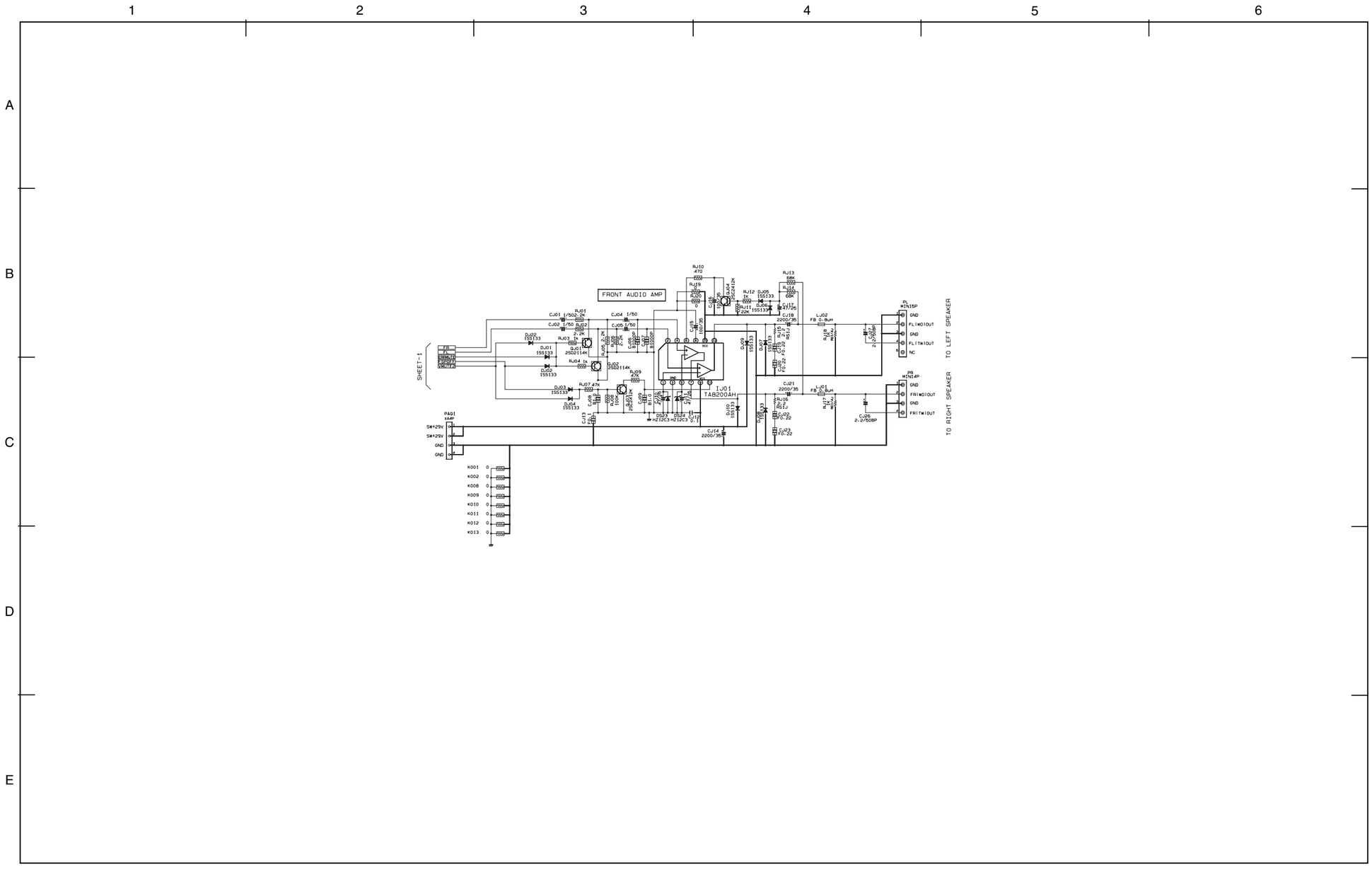
CIRCUIT SCHEMATIC DIAGRAM

DP14G

SIGNAL 4/4
DP14G Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Signal 4/4 DP14G Only

HOME

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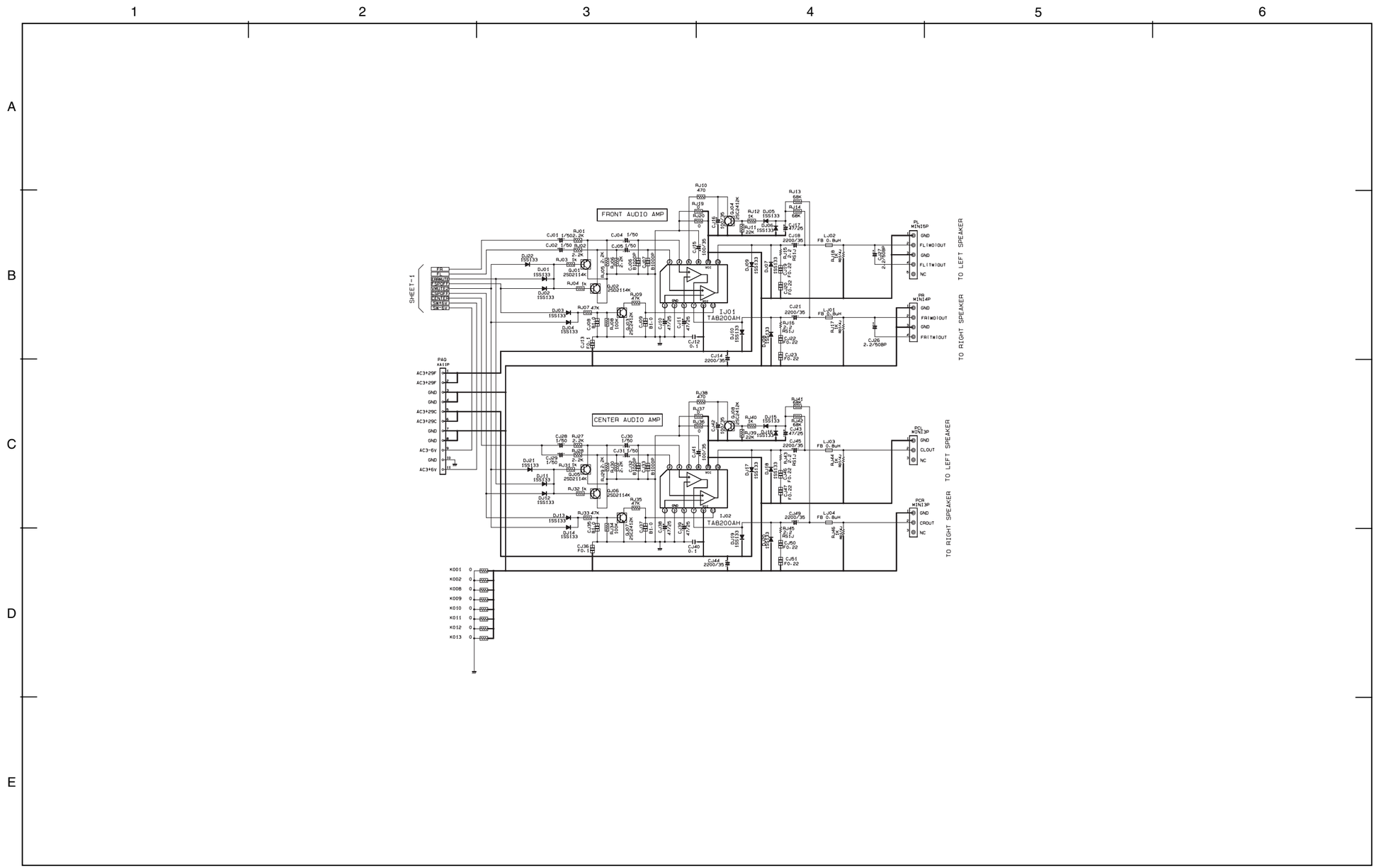
CIRCUIT SCHEMATIC DIAGRAM

DP17

SIGNAL 4/4
DP17 Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Signal 4/4 DP17 Only

HOME

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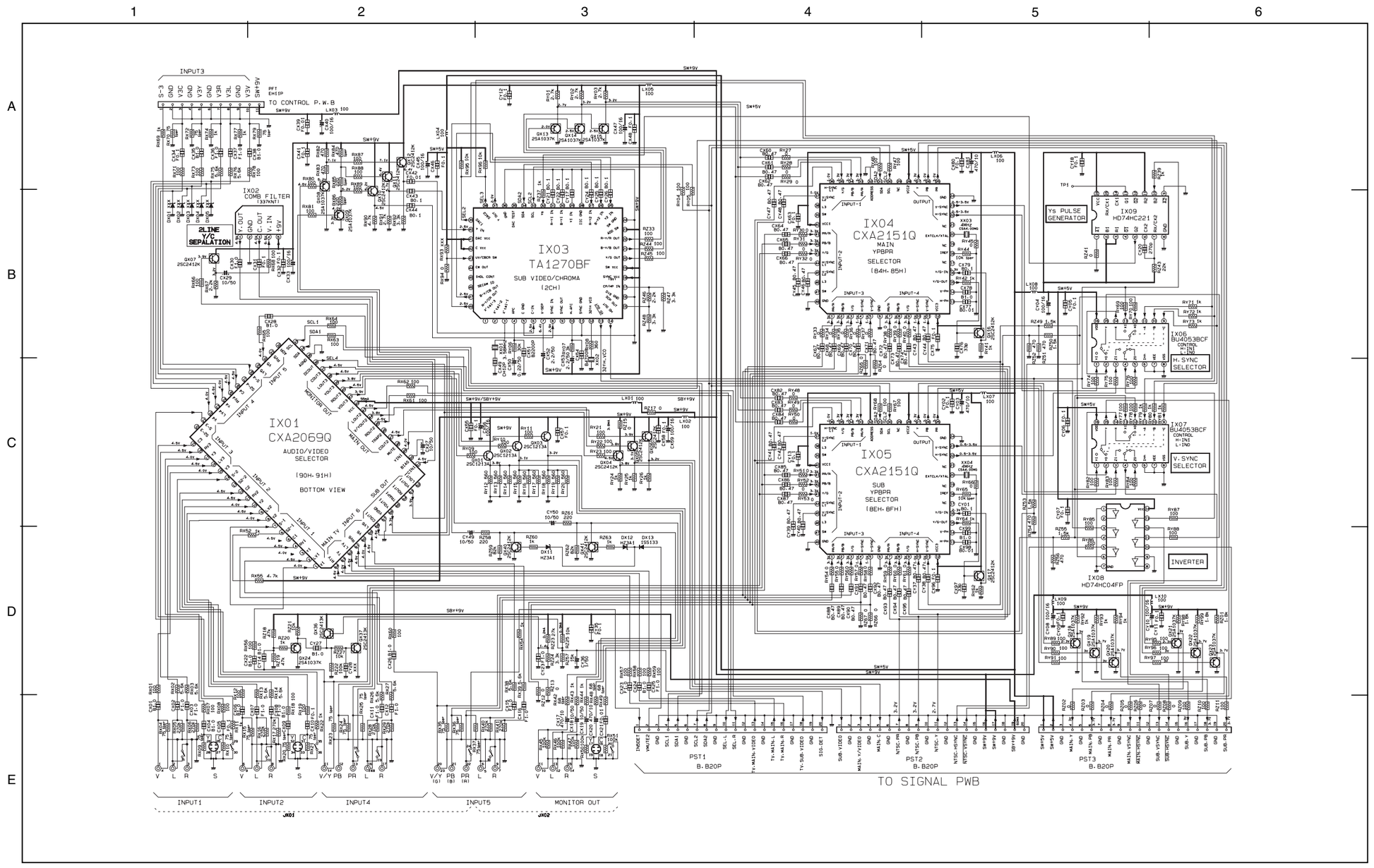
CIRCUIT SCHEMATIC DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Terminal

HOME

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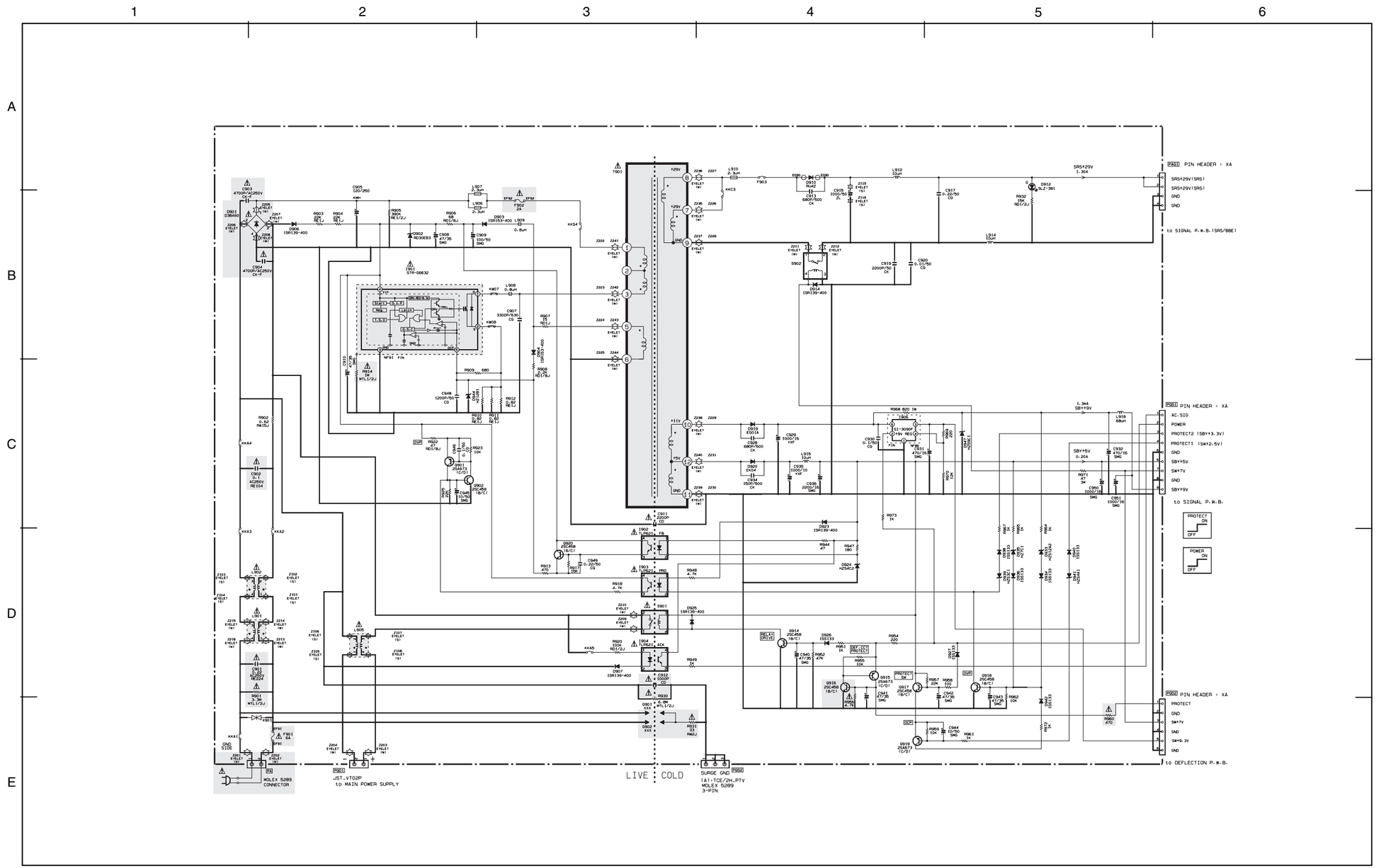
CIRCUIT SCHEMATIC DIAGRAM

DP14G

POWER SUPPLY
DP14G Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Power Supply DP14G Only

HOME

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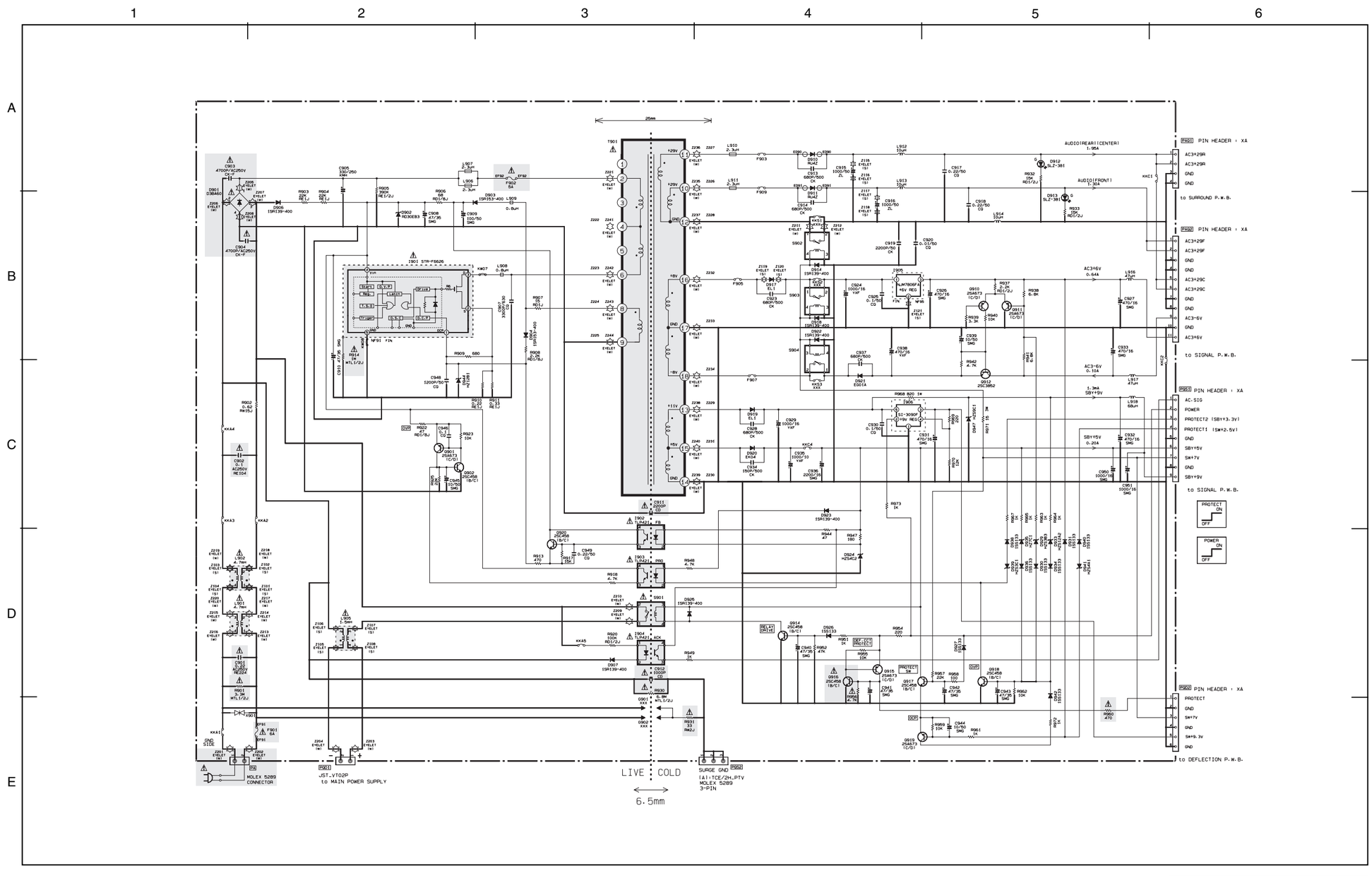
CIRCUIT SCHEMATIC DIAGRAM

DP17



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Power Supply DP17 Only

HOME

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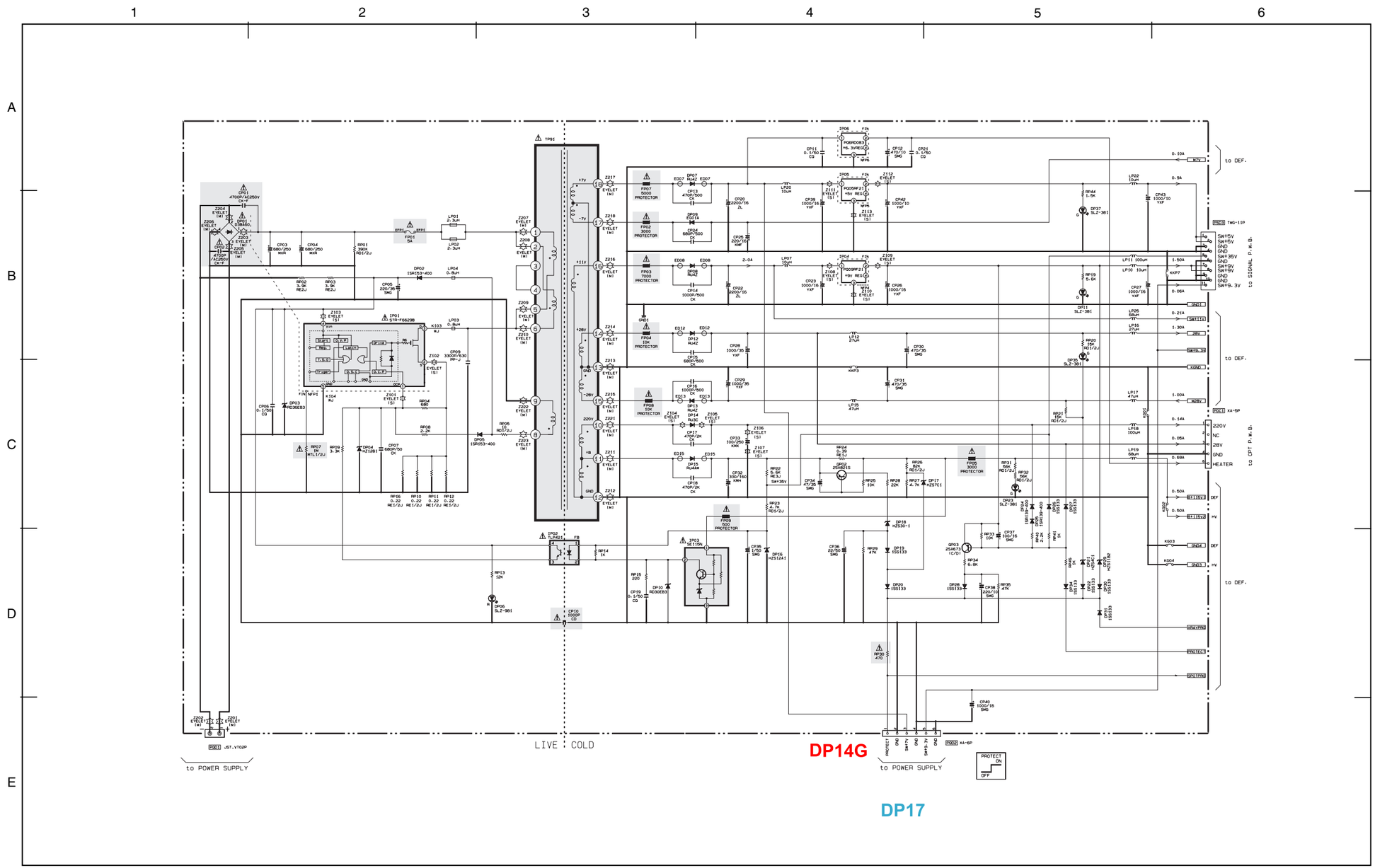
CIRCUIT SCHEMATIC DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Deflection Power

HOME

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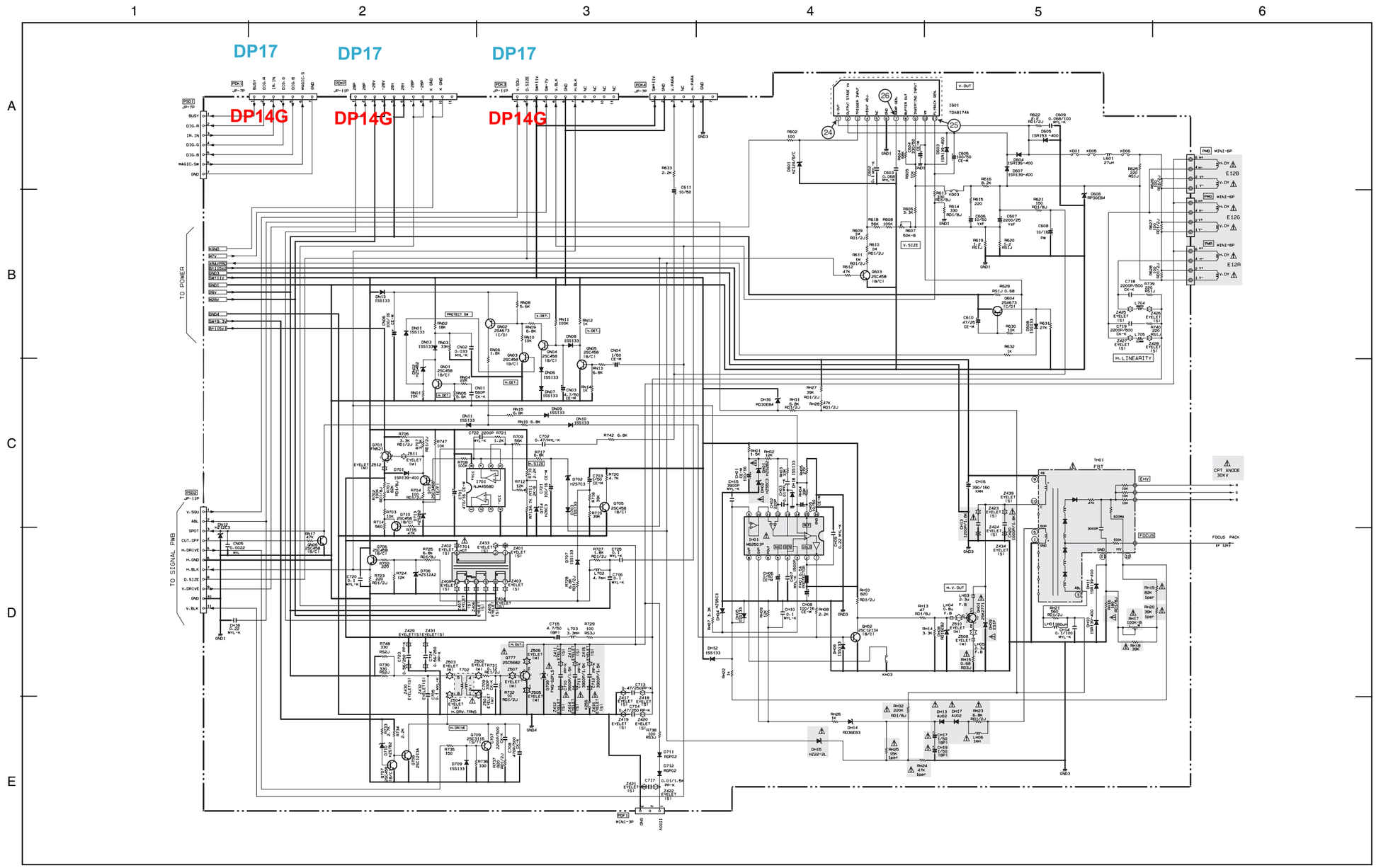
CIRCUIT SCHEMATIC DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

HOME

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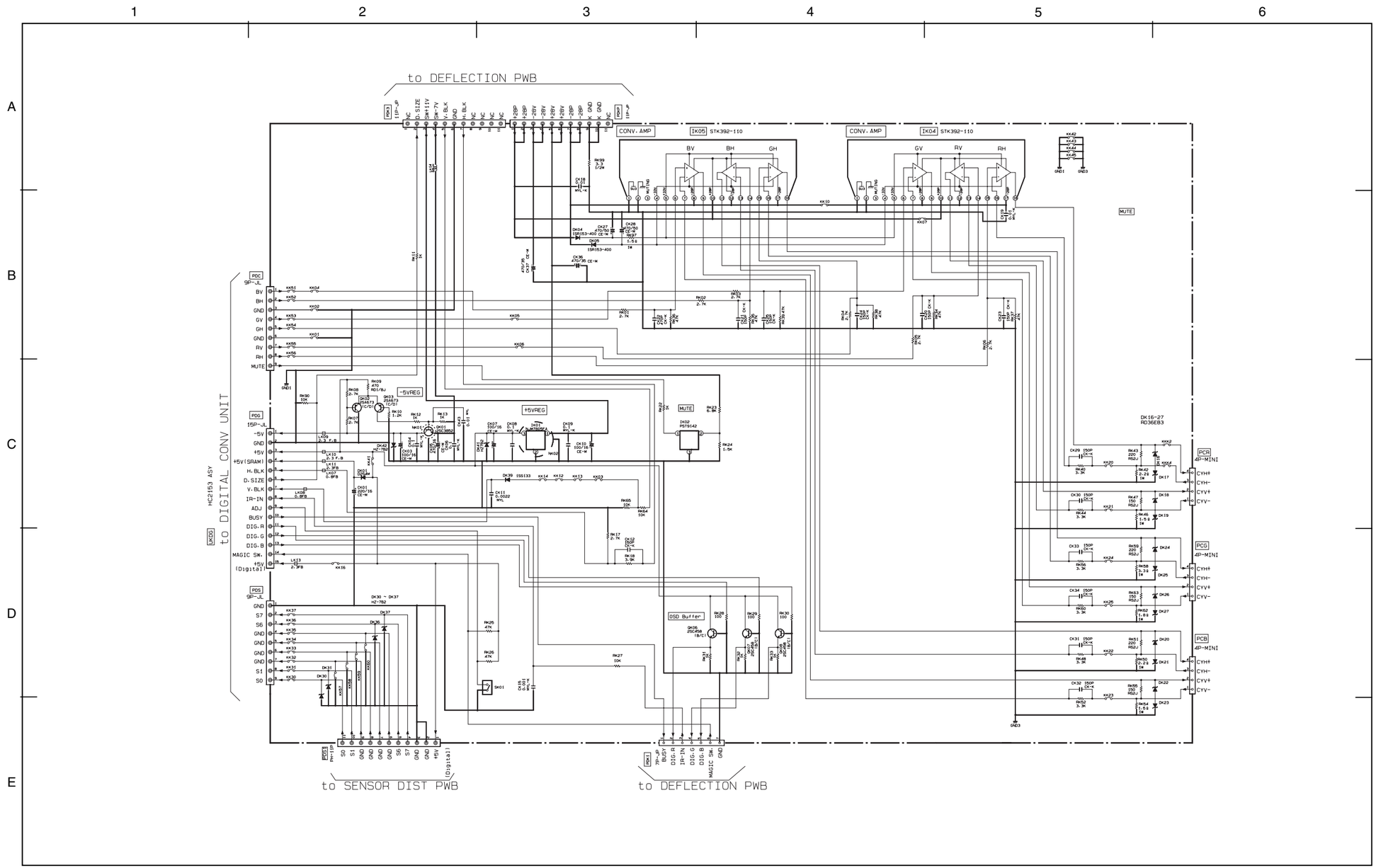
CIRCUIT SCHEMATIC DIAGRAM

DP14G

CONVERGENCE
DP14G Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Convergence DP14G Only

HOME

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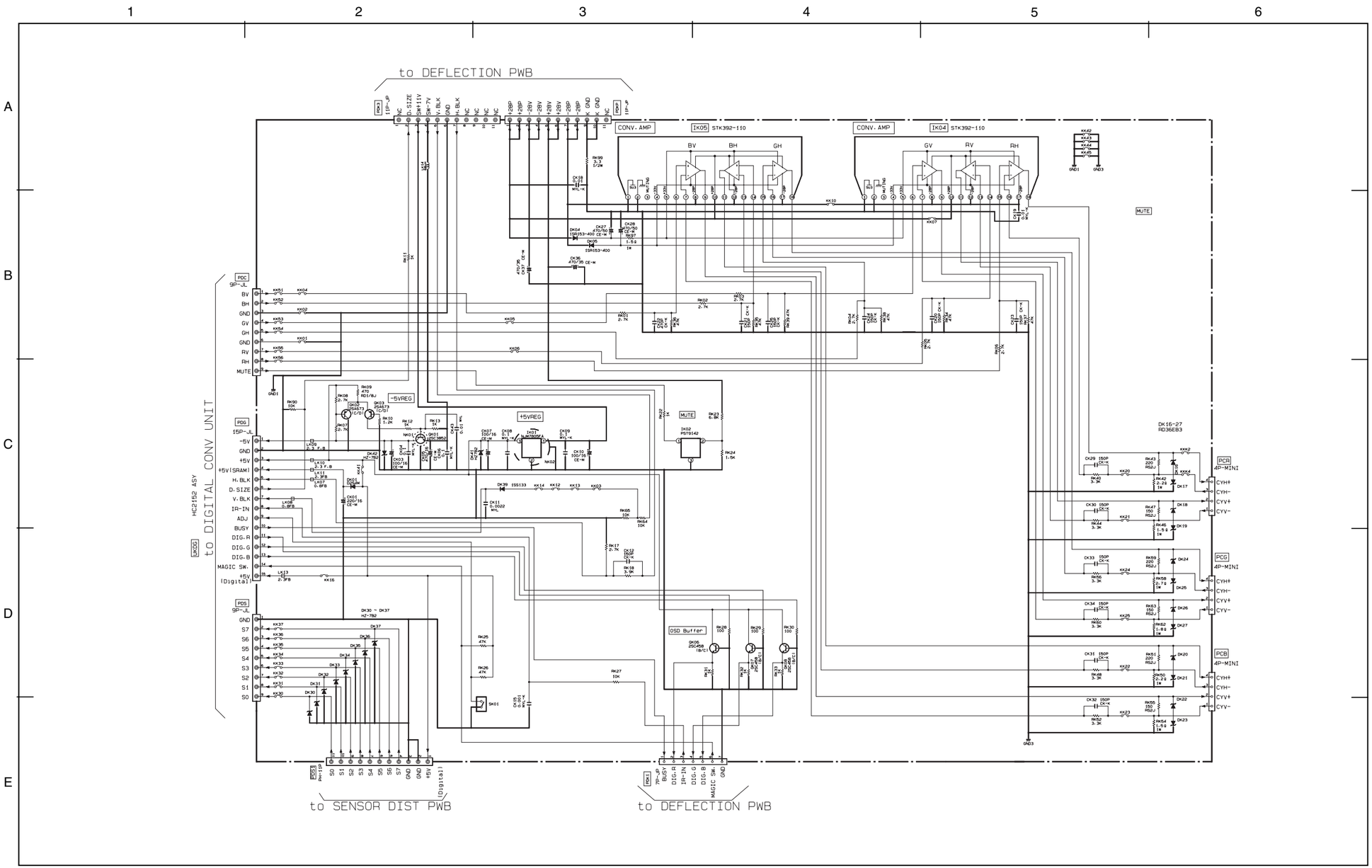
CIRCUIT SCHEMATIC DIAGRAM

DP17

CONVERGENCE
DP17 Only



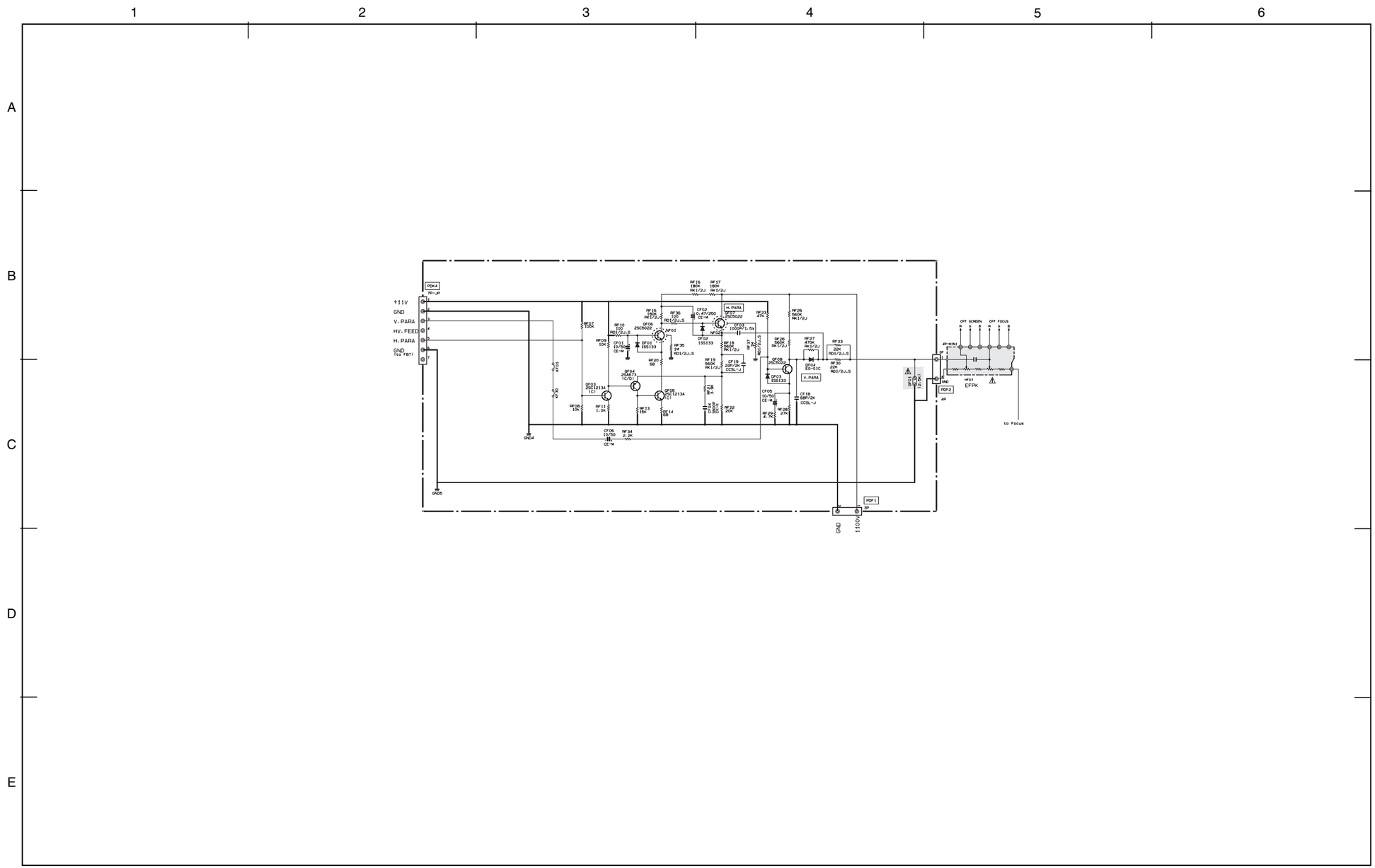
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Convergence DP17 Only

HOME

PRODUCT SAFETY NOTE: Components marked with a ⚠ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don t degrade the safety of the receiver through improper servicing.

CIRCUIT SCHEMATIC DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Focus

HOME

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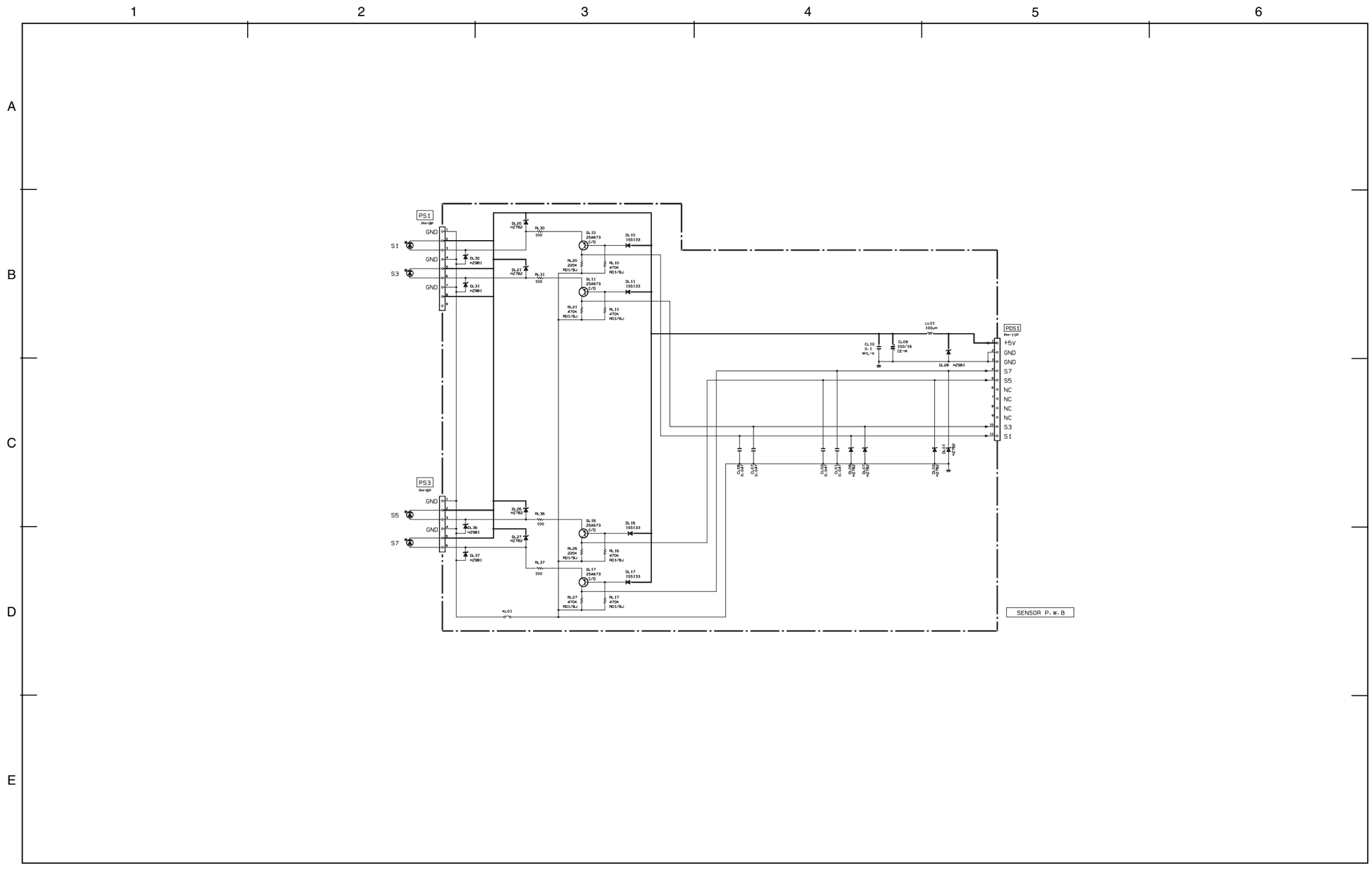
CIRCUIT SCHEMATIC DIAGRAM

DP14G

SENSOR
DP14G Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Sensor DP14G Only

HOME

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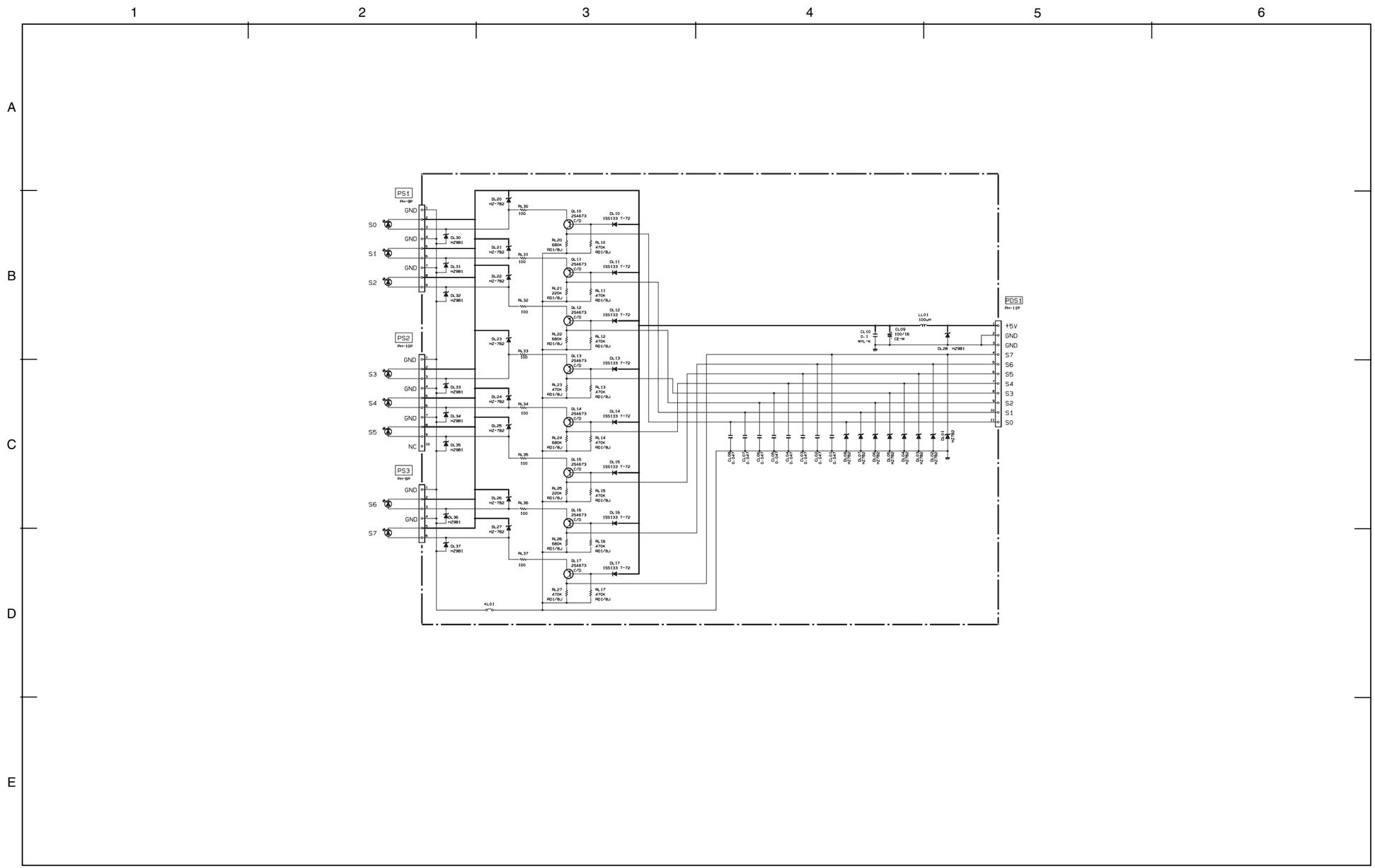
CIRCUIT SCHEMATIC DIAGRAM

DP17

SENSOR
DP17 Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Sensor DP17 Only

HOME

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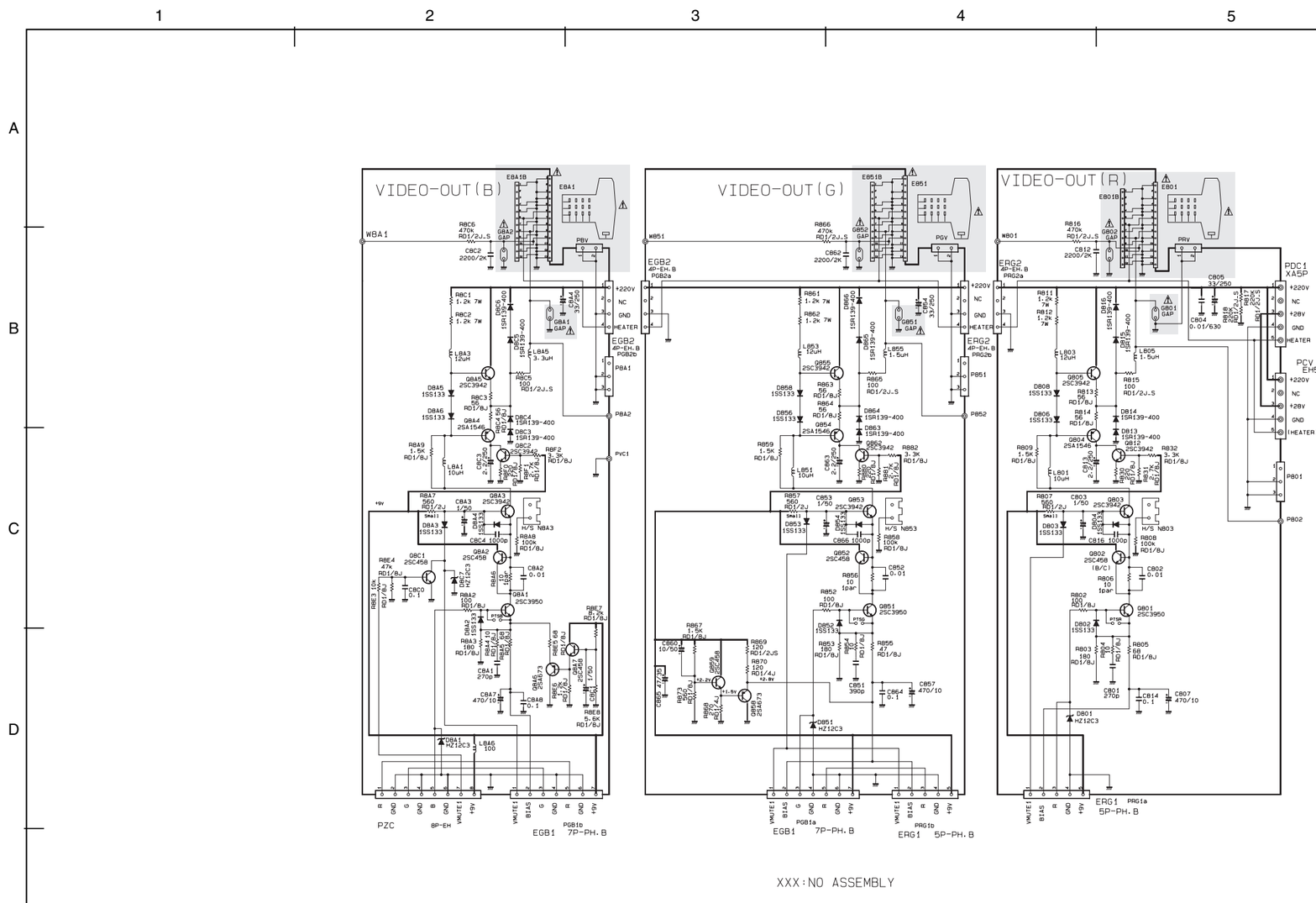
CIRCUIT SCHEMATIC DIAGRAM

CPT



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

CPT

HOME

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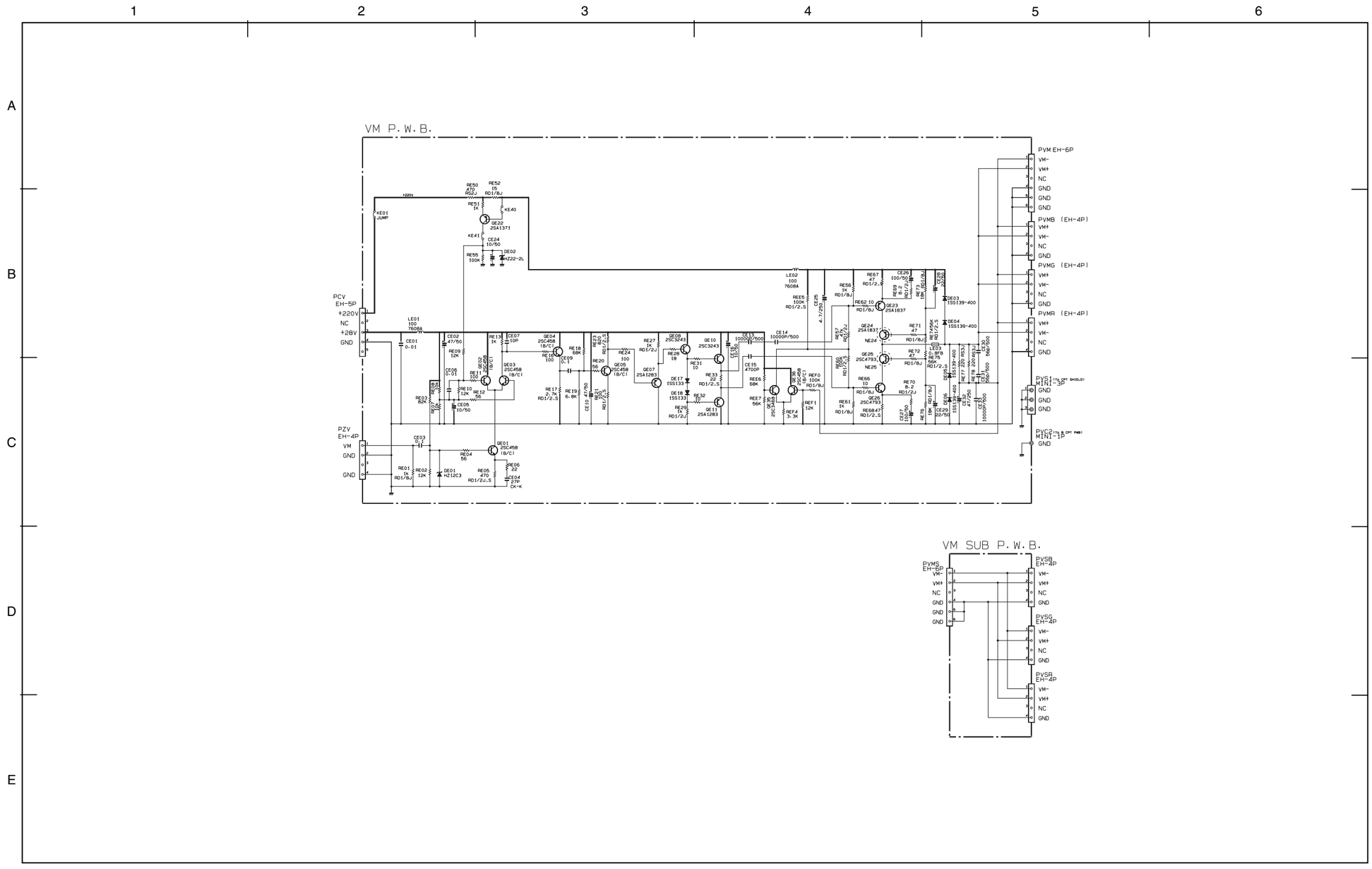
CIRCUIT SCHEMATIC DIAGRAM



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

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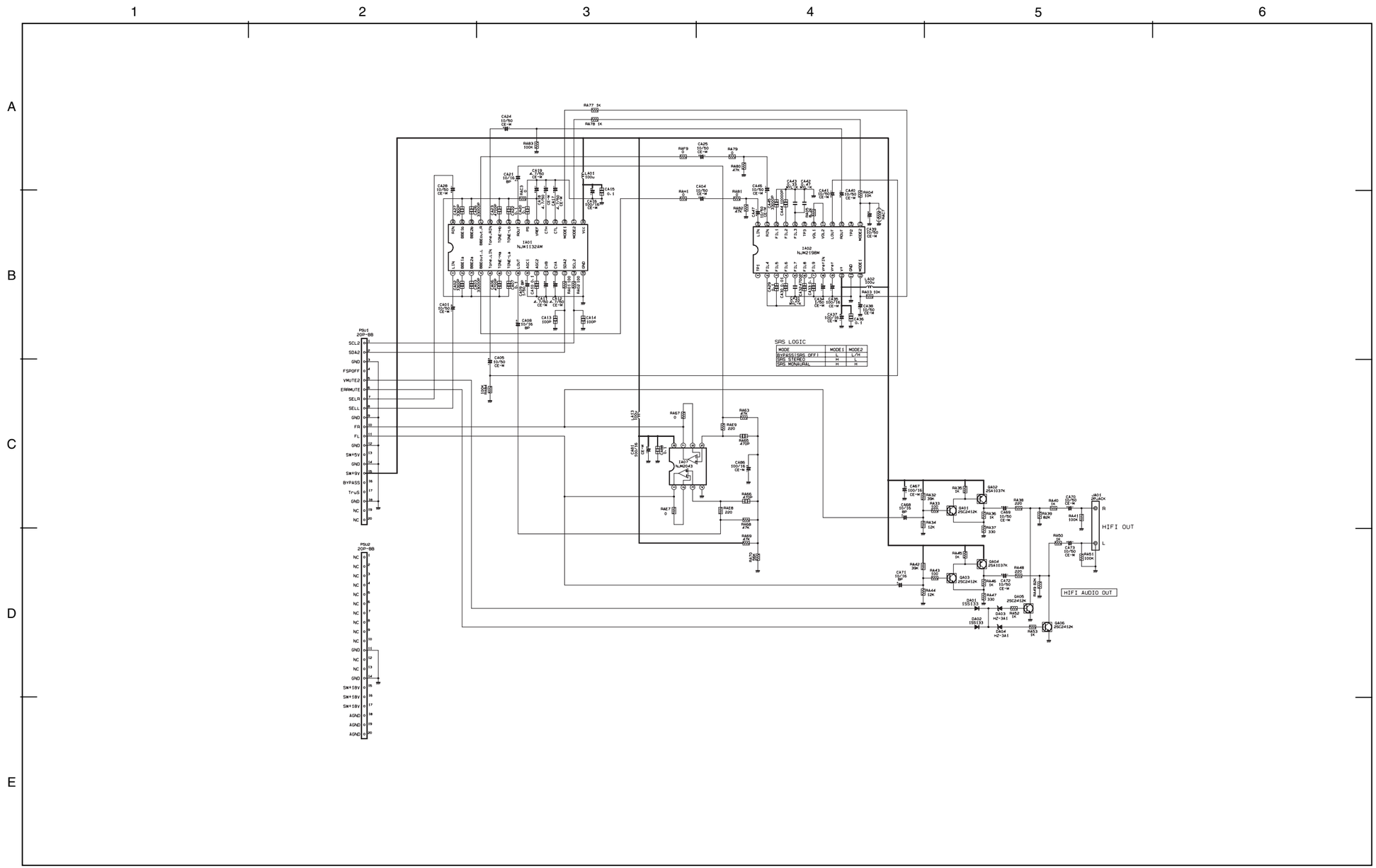
CIRCUIT SCHEMATIC DIAGRAM

DP14G

SRS/BBE
DP14G Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

SRS/BBE DP14G Only

HOME

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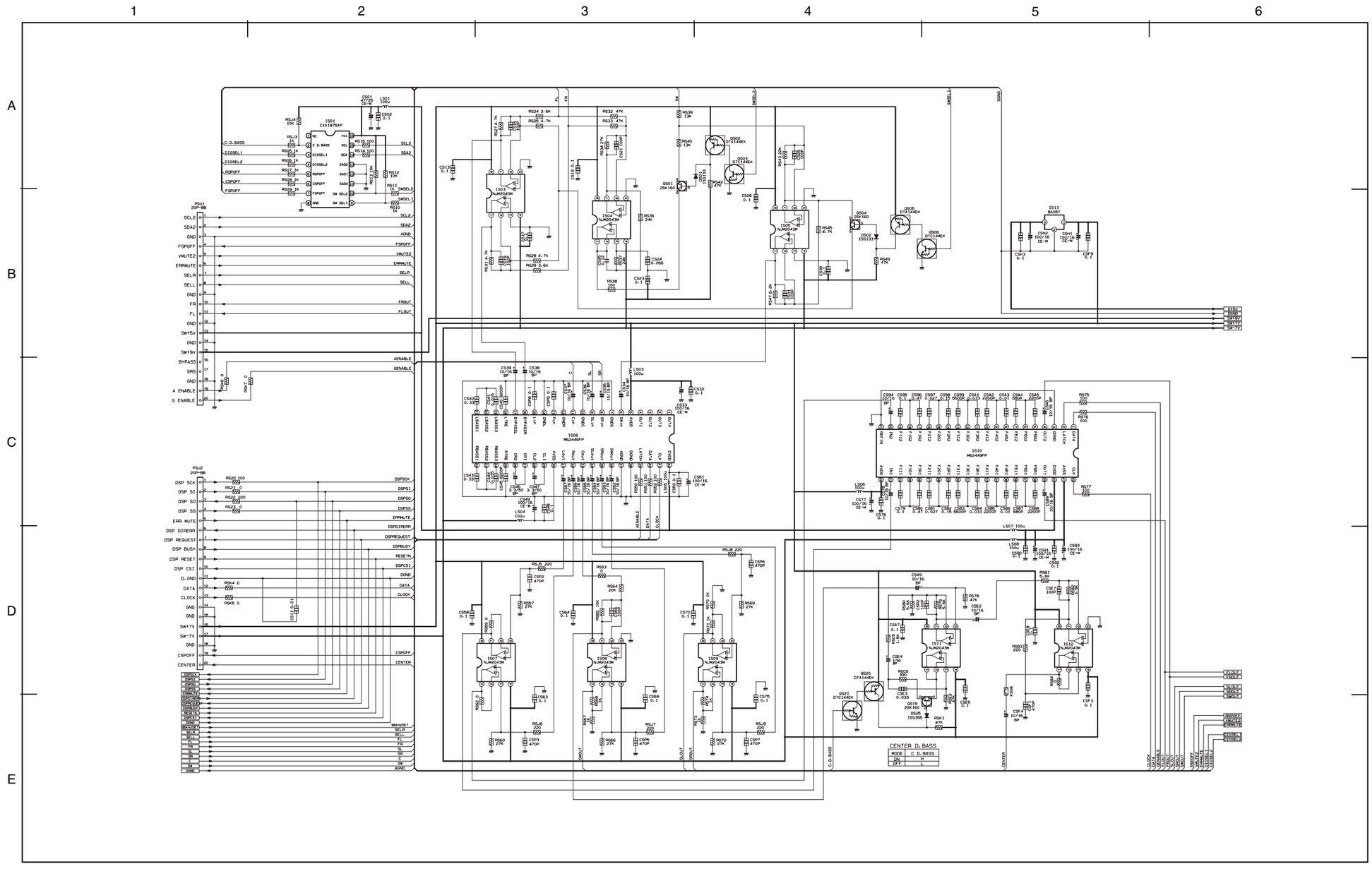
CIRCUIT SCHEMATIC DIAGRAM

DP17

SURROUND 1/4
DP17 Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Surround 1/4 DP17 Only

HOME

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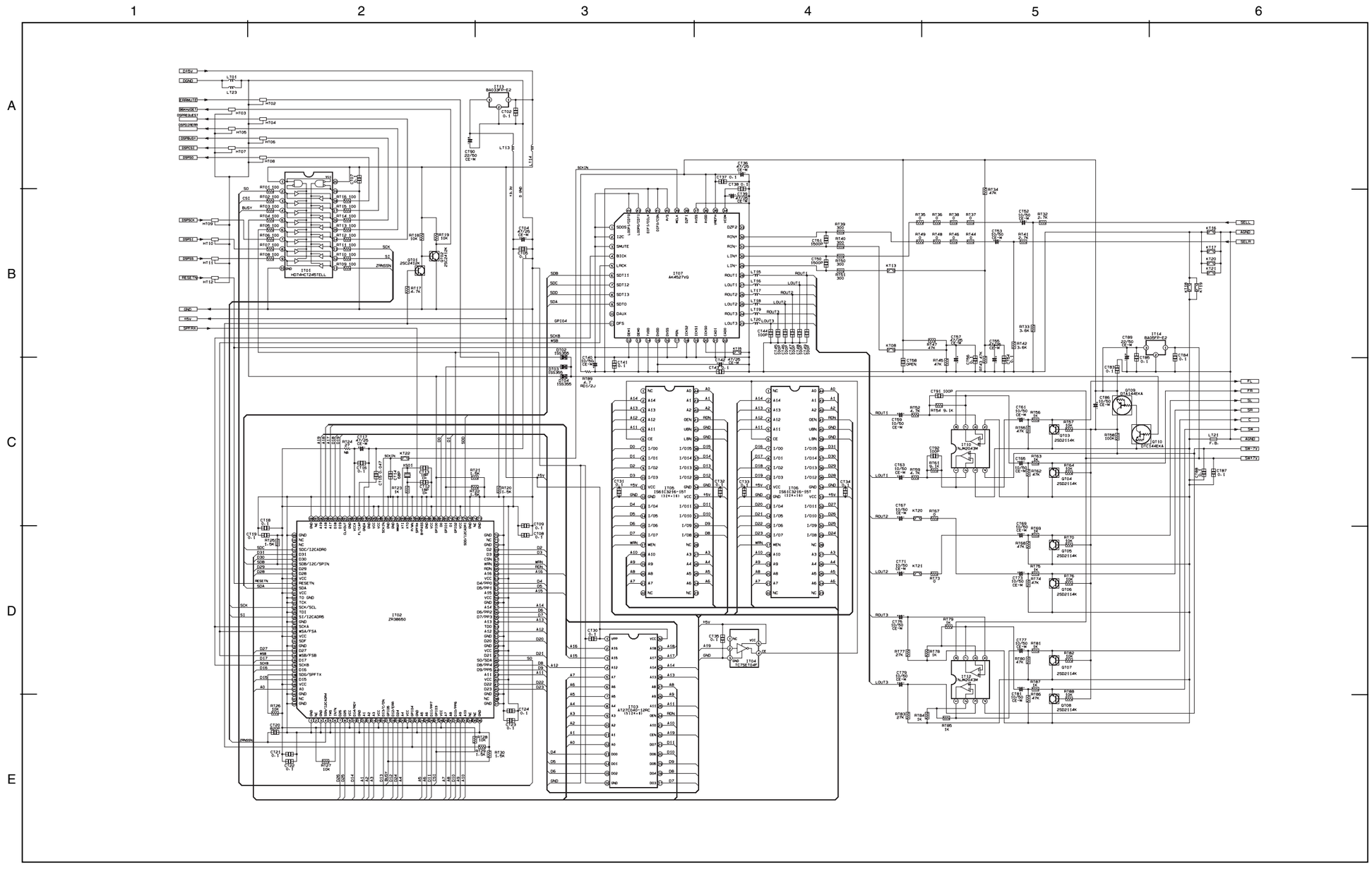
CIRCUIT SCHEMATIC DIAGRAM

DP17

SURROUND 2/4
DP17 Only



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Surround 2/4 DP17 Only

HOME

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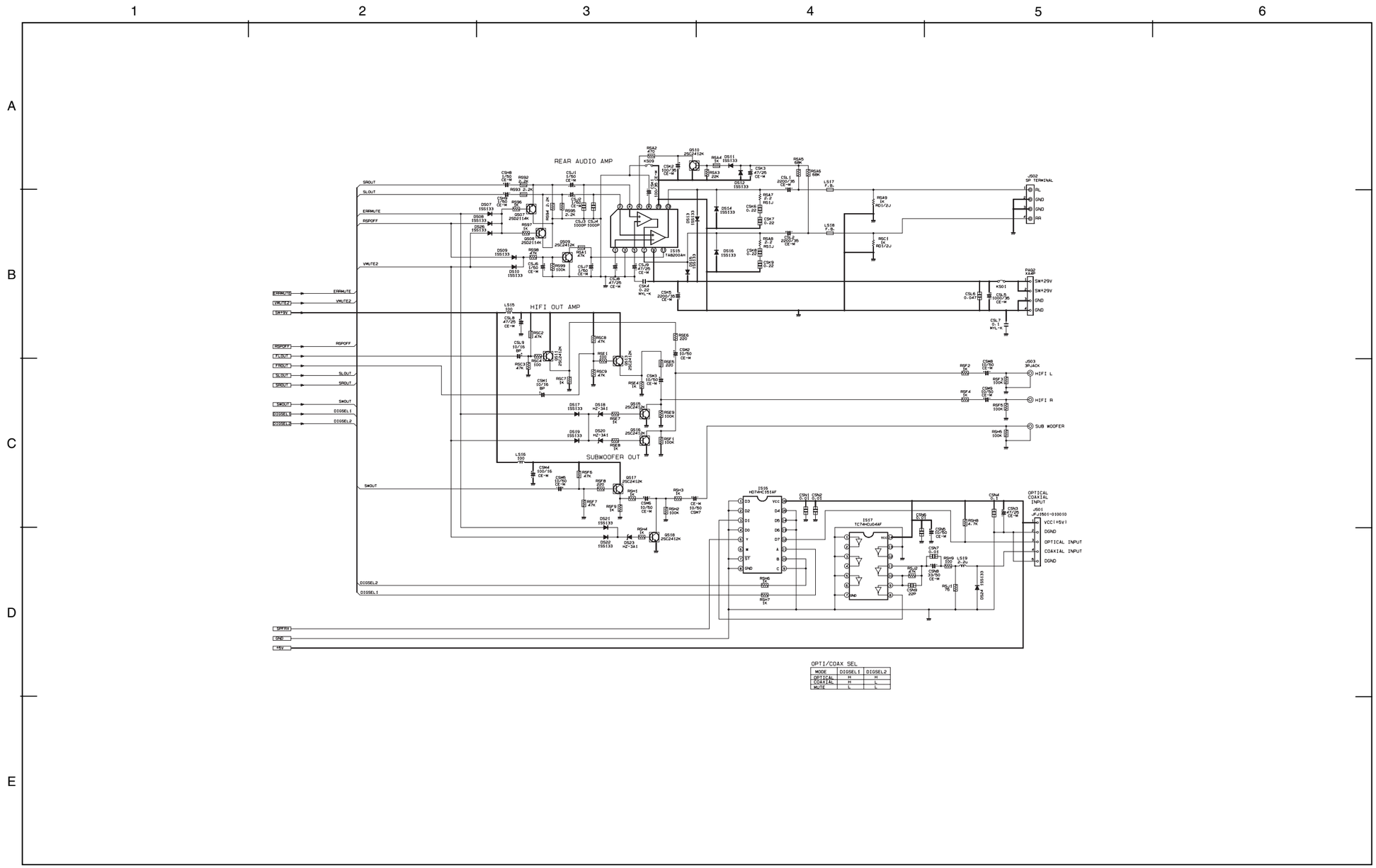
CIRCUIT SCHEMATIC DIAGRAM

DP17



OPTI/COAX SEL

MODE	DIGSEL1	DIGSEL2
OPTICAL	H	H
COAXIAL	H	L
MUTE	L	L

- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Surround 3/4 DP17 Only

HOME

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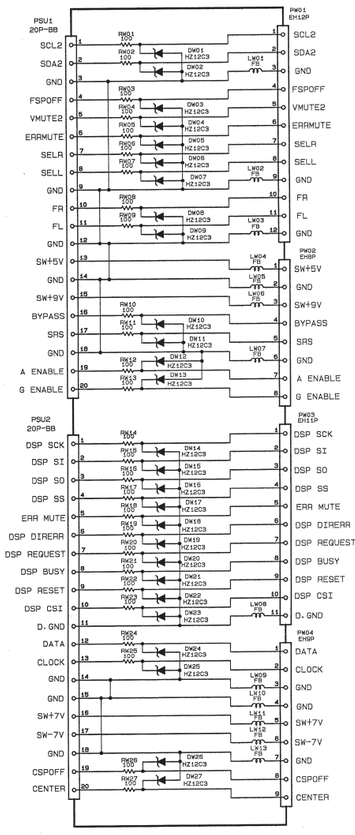
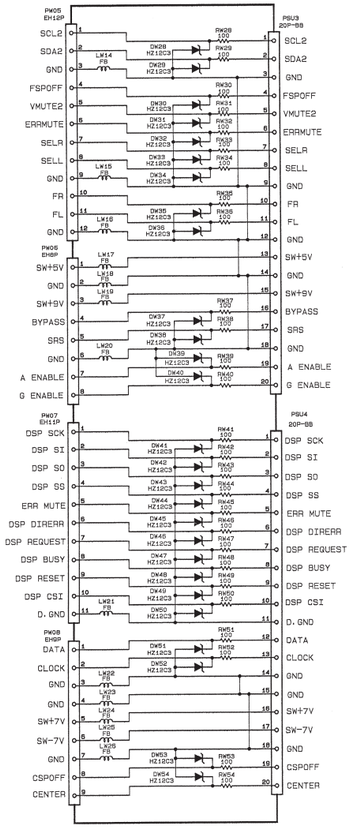
CIRCUIT SCHEMATIC DIAGRAM

SURROUND 4/4
DP17 Only

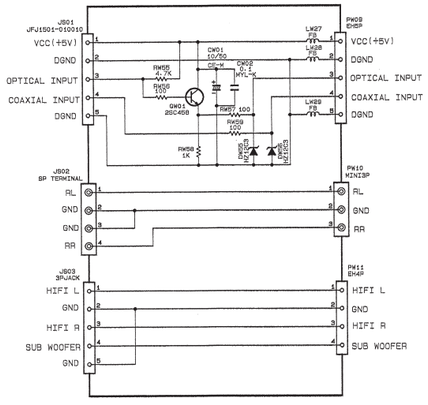
SURROUND SUB1



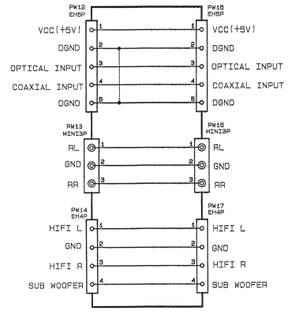
SURROUND SUB2



SURROUND SUB3



SURROUND SUB4



- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Surorund 4/4 DP17 Only

HOME

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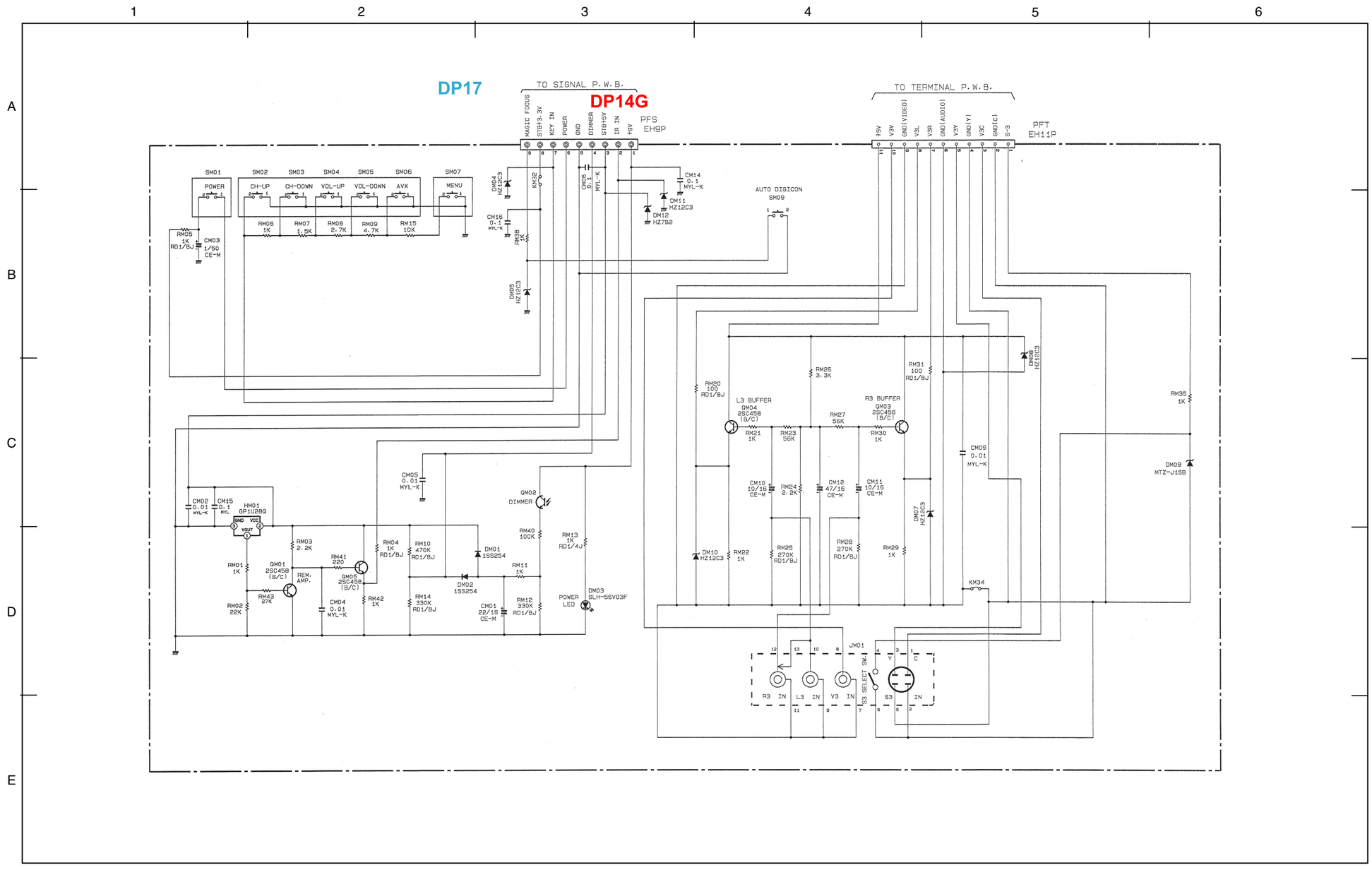
CIRCUIT SCHEMATIC DIAGRAM



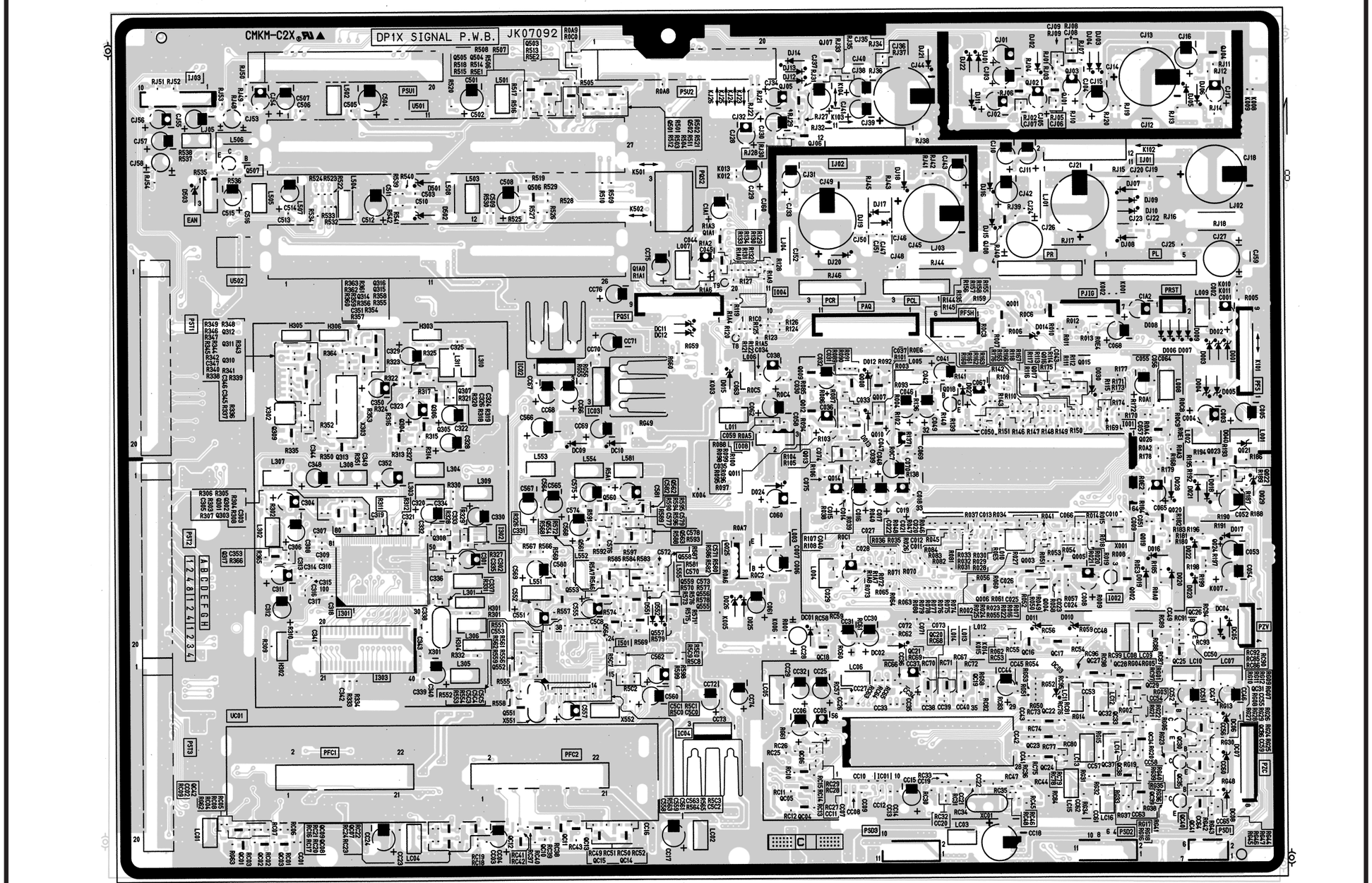
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

Control

HOME

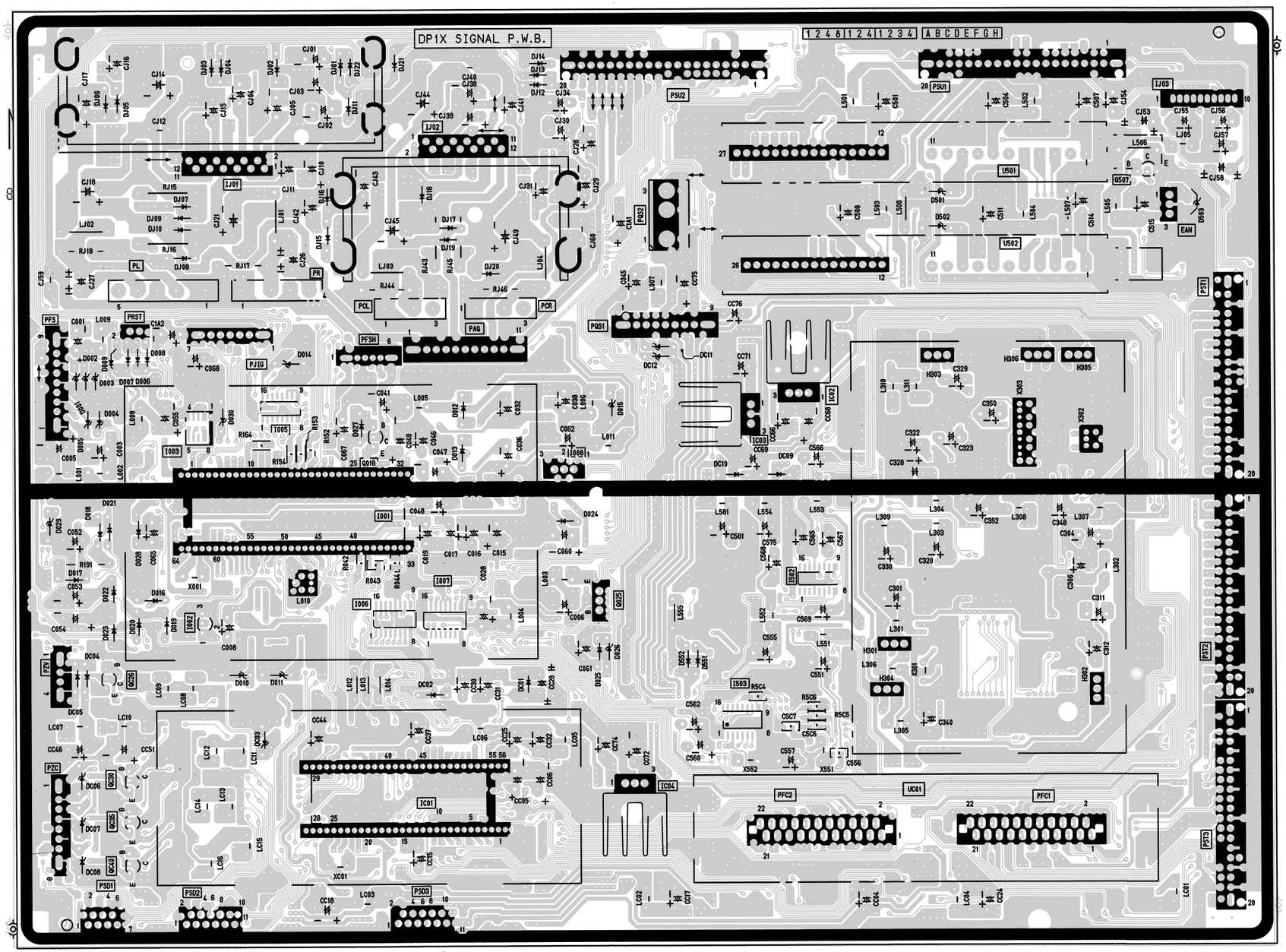
PRINTED CIRCUIT BOARD
COMPONENT SIDE

DP1X SIGNAL PWB



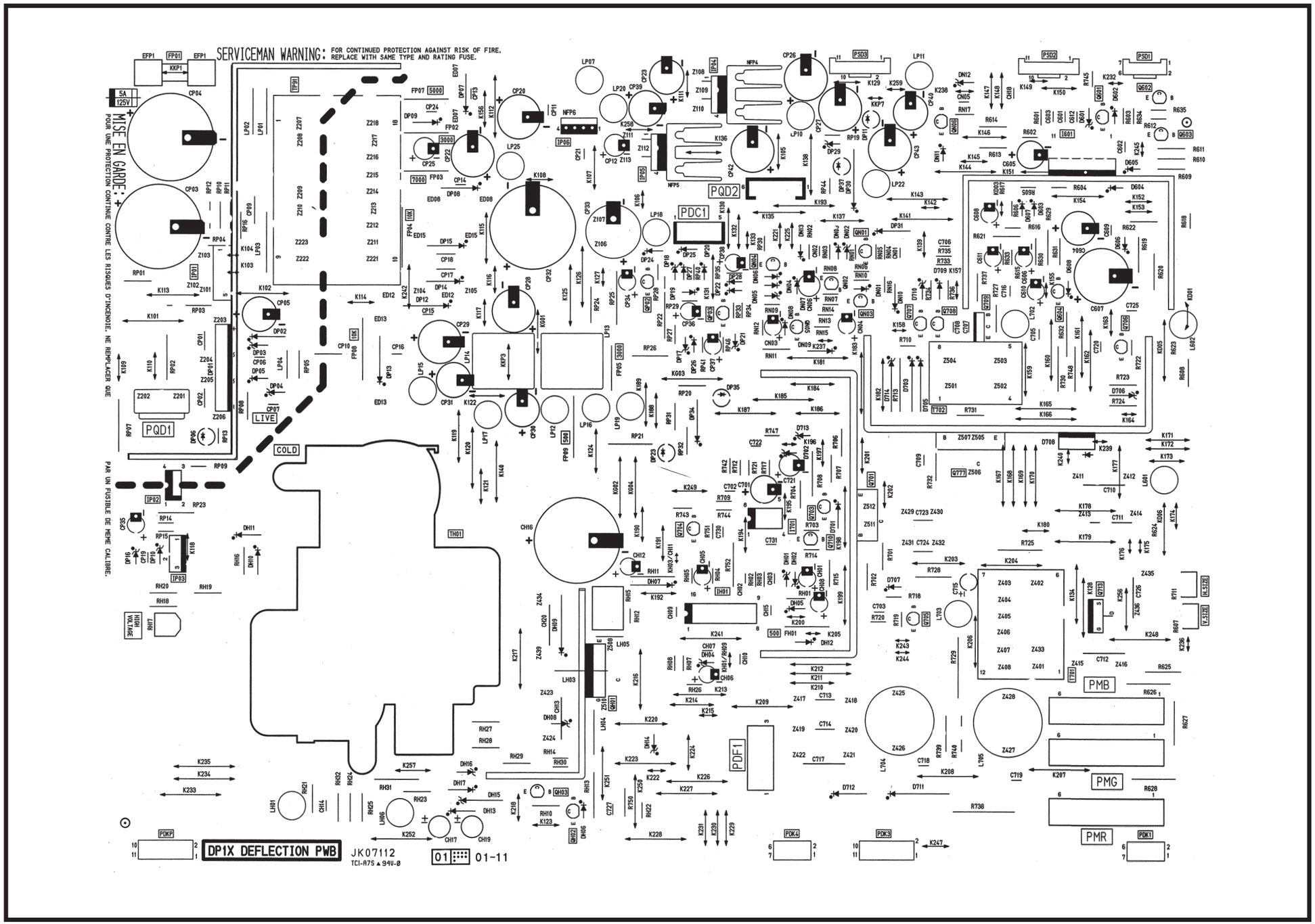
PRINTED CIRCUIT BOARD
PATTERN SIDE

DP1X SIGNAL PWB



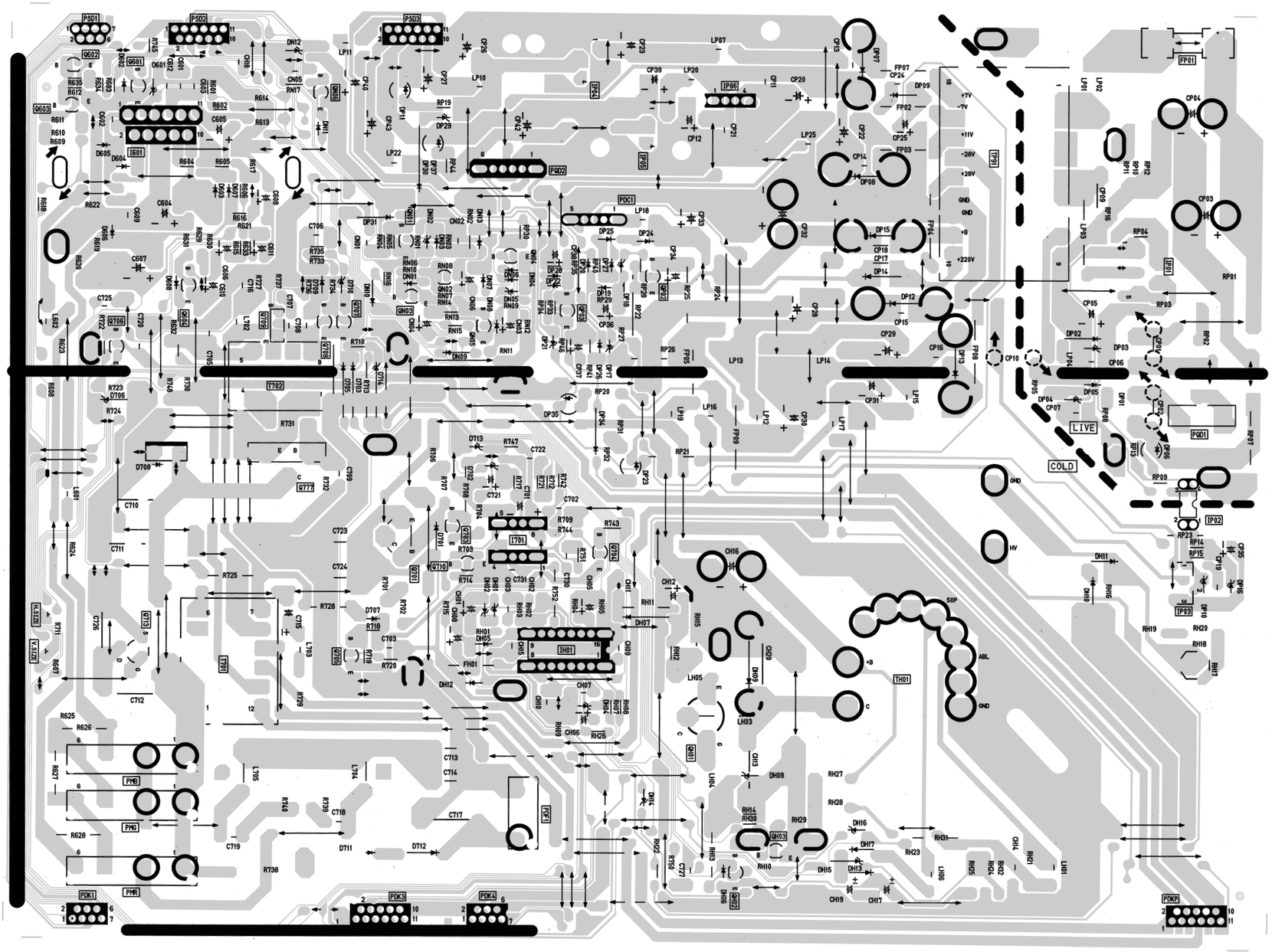
PRINTED CIRCUIT BOARD
COMPONENT SIDE

DP1X DEFLECTION PWB



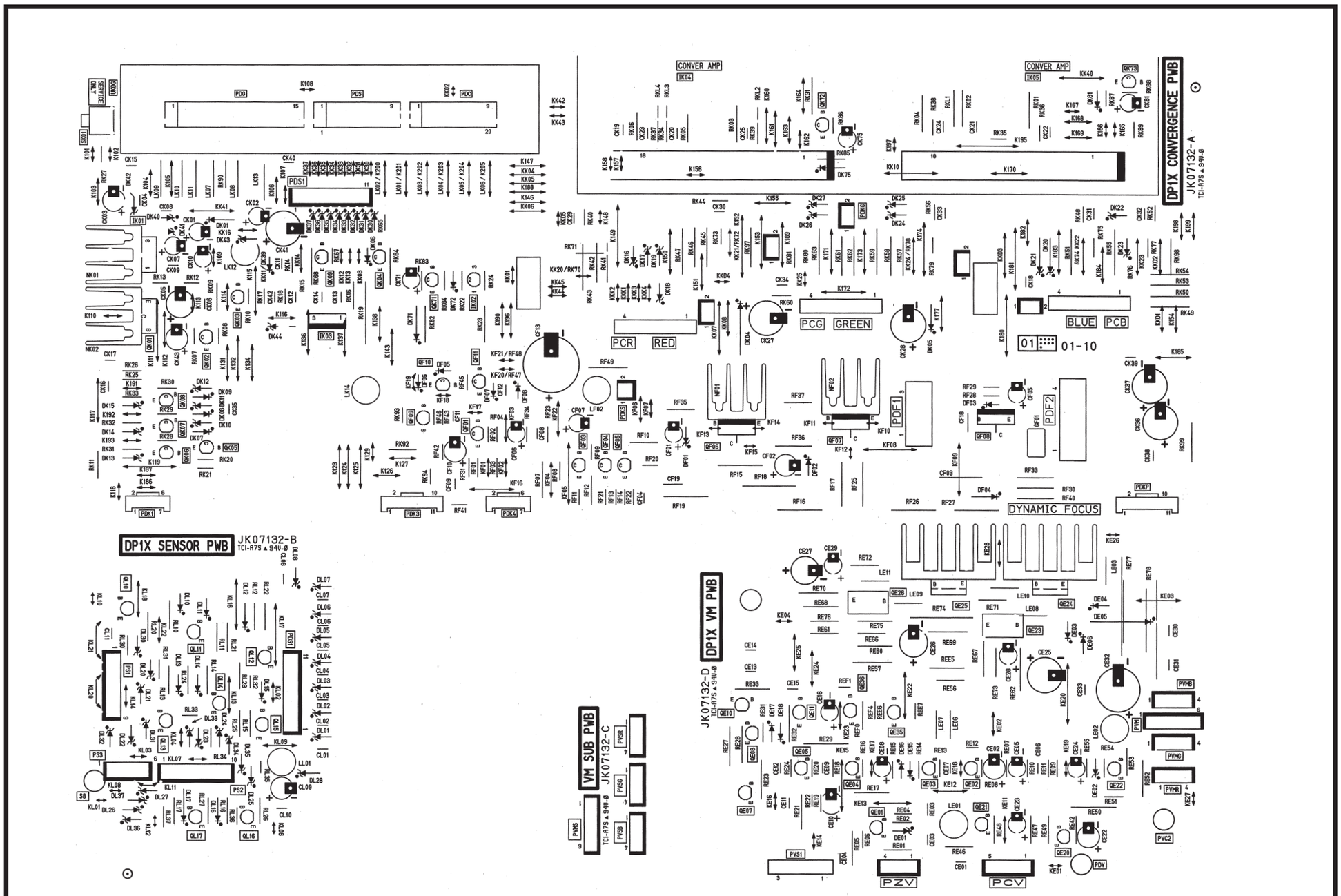
PRINTED CIRCUIT BOARD
PATTERN SIDE

DP1X DEFLECTION PWB



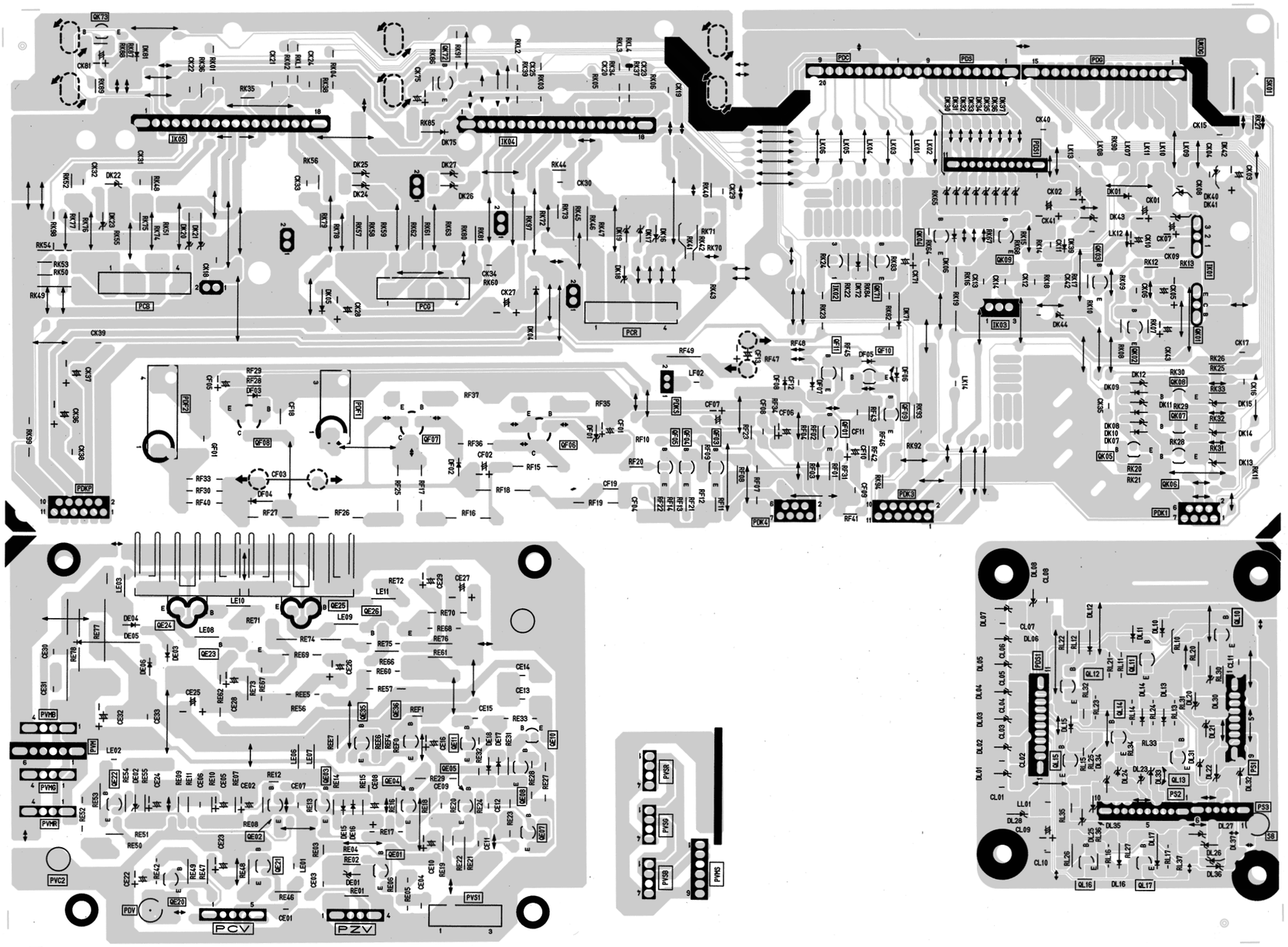
PRINTED CIRCUIT BOARD
COMPONENT SIDE

DP1X CONVERGENCE / DP1X SENSOR PWB / DP1X VM PWB



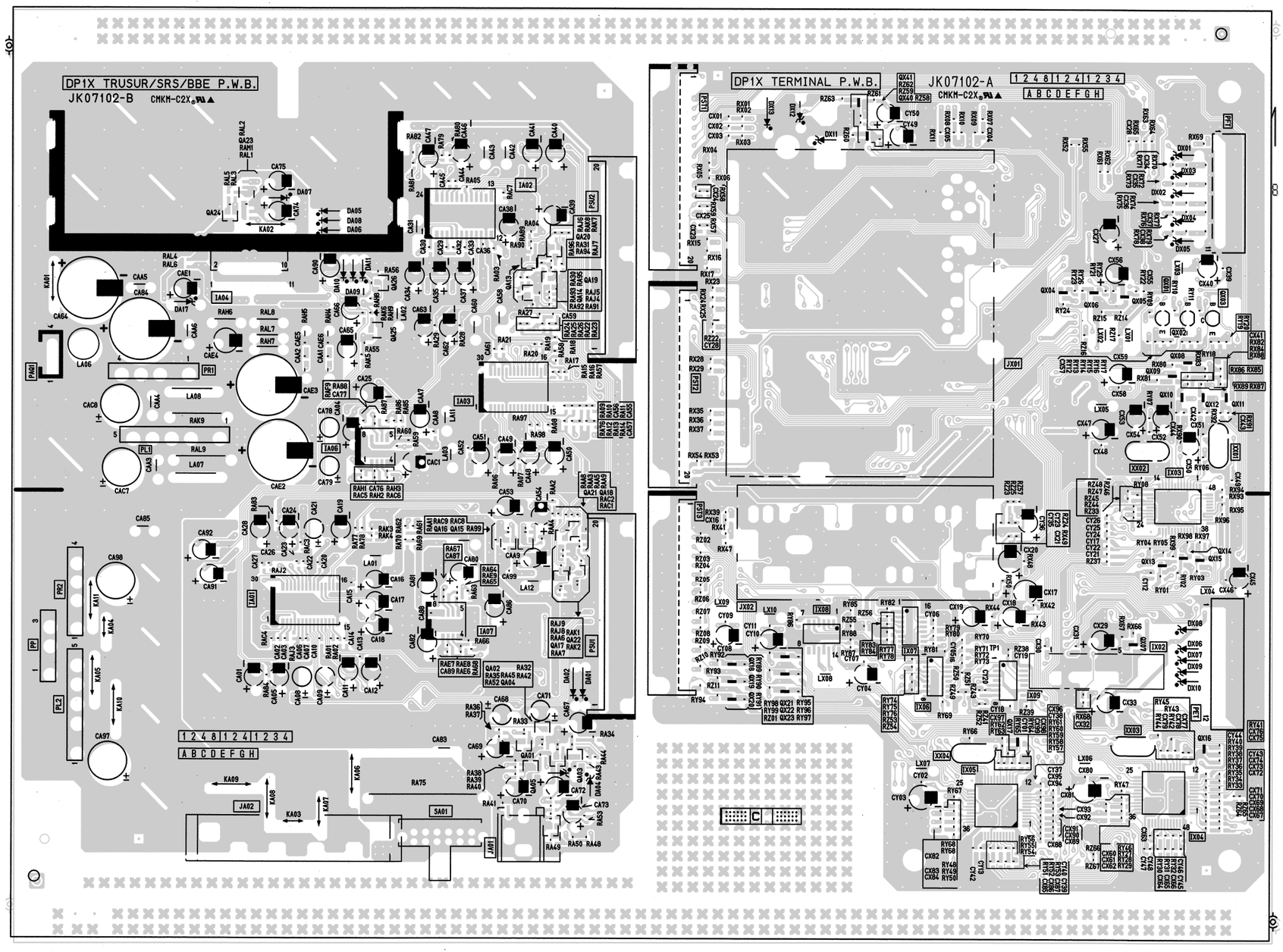
PRINTED CIRCUIT BOARD
PATTERN SIDE

DP1X CONVERGENCE / DP1X SENSOR PWB / DP1X VM PWB



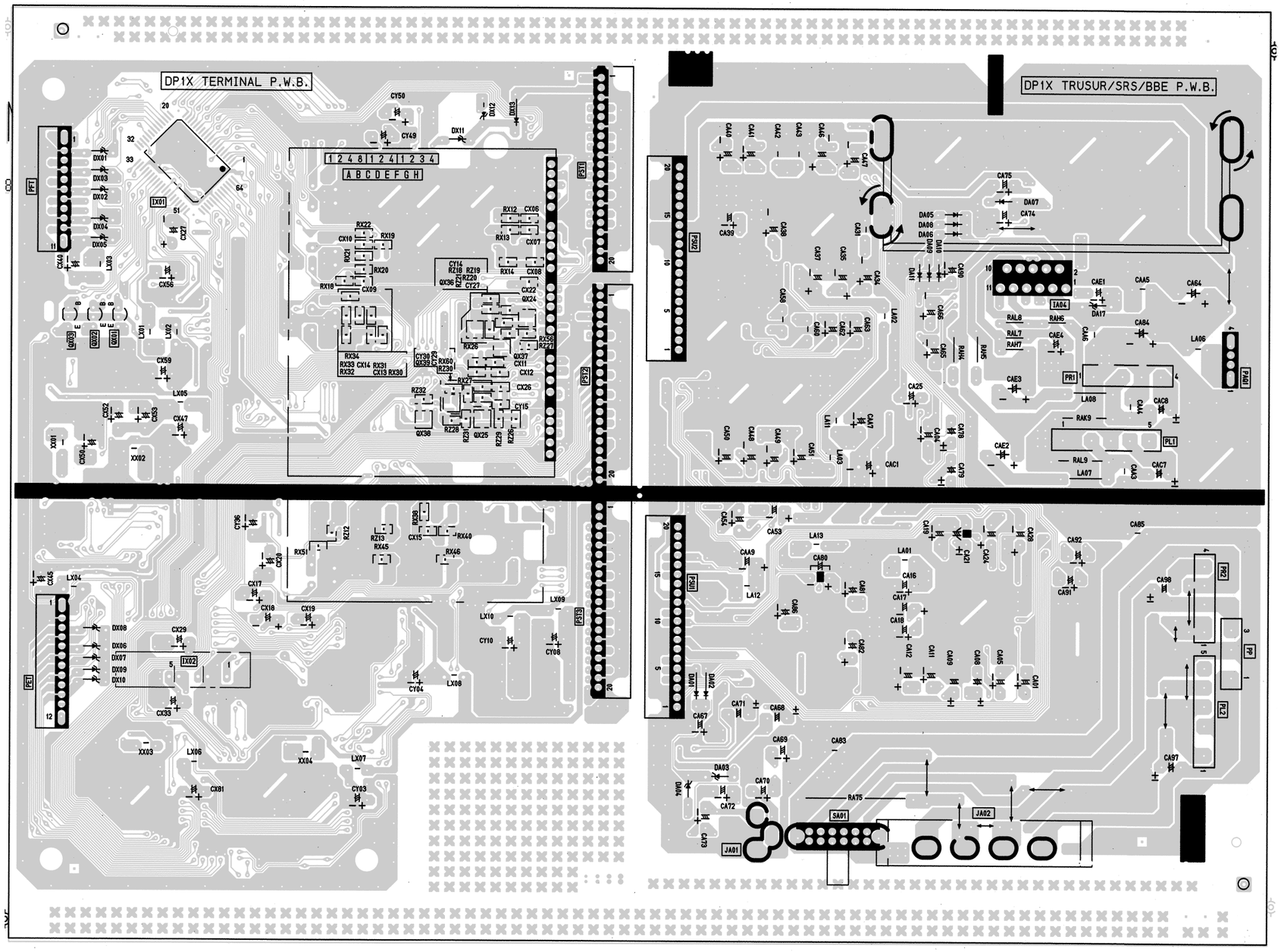
PRINTED CIRCUIT BOARD
COMPONENT SIDE

DP1X SRS/BBE PWB / DP1X TERMINAL PWB



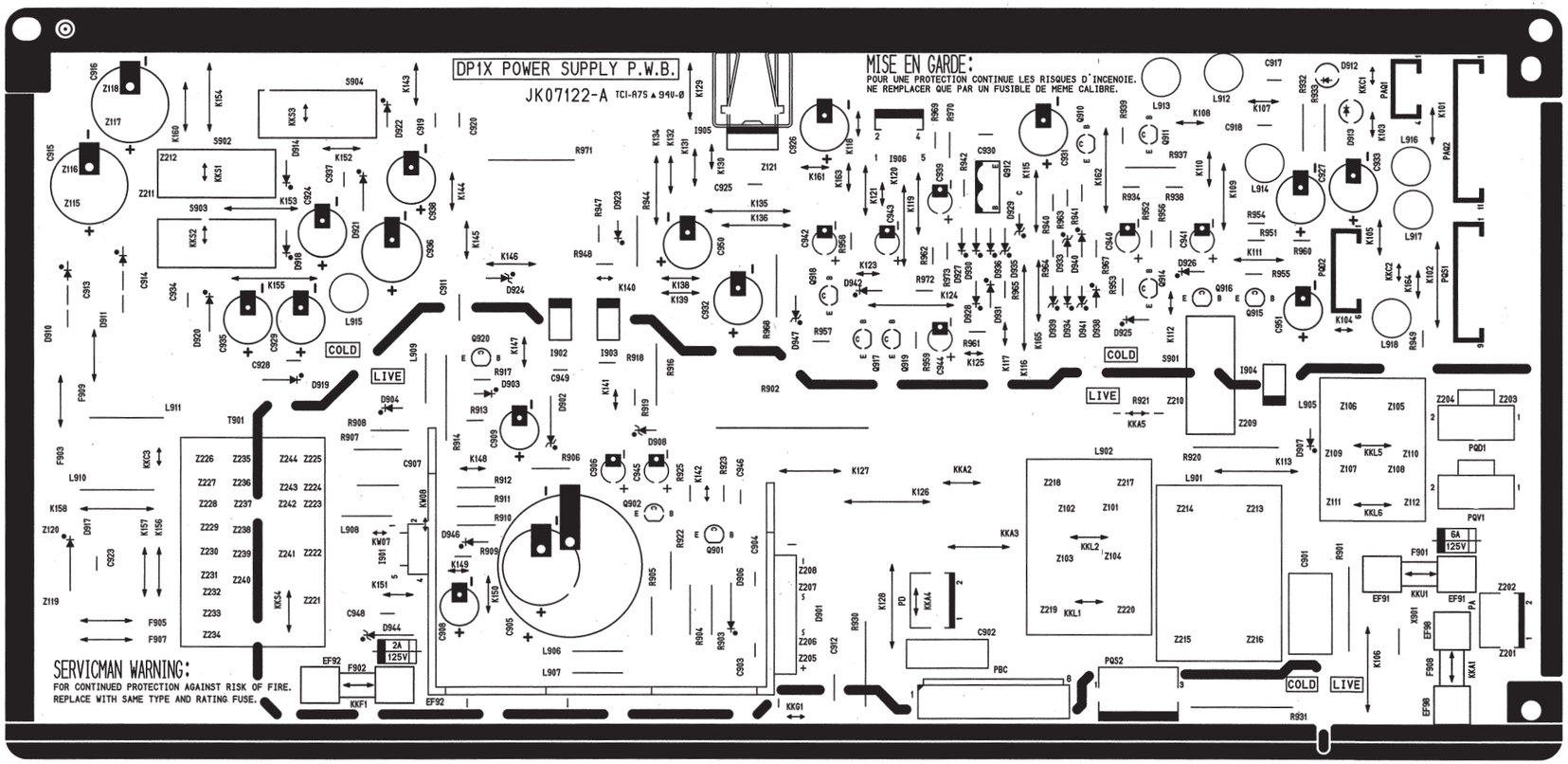
PRINTED CIRCUIT BOARD
PATTERN SIDE

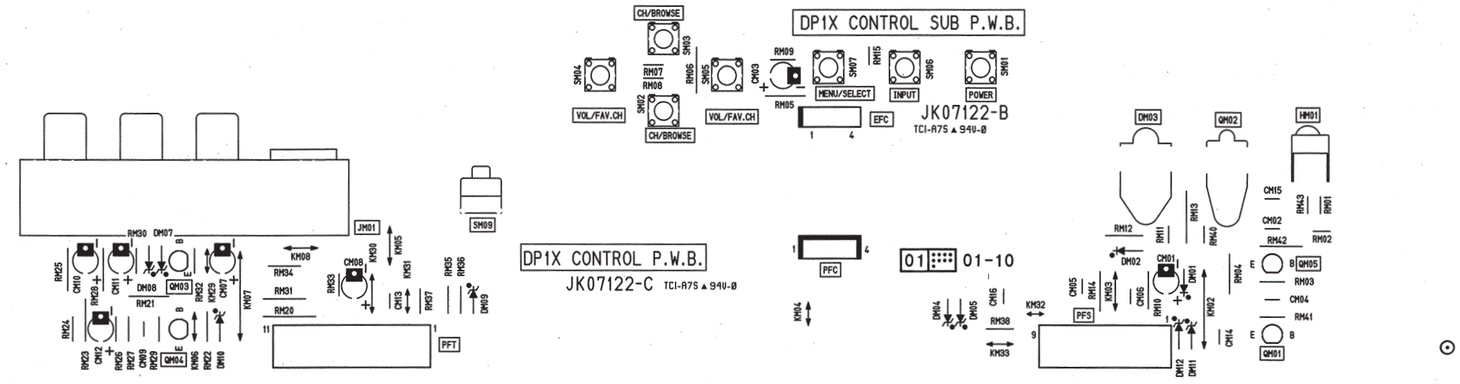
DP1X SRS/BBE PWB / DP1X TERMINAL PWB



PRINTED CIRCUIT BOARD
COMPONENT SIDE

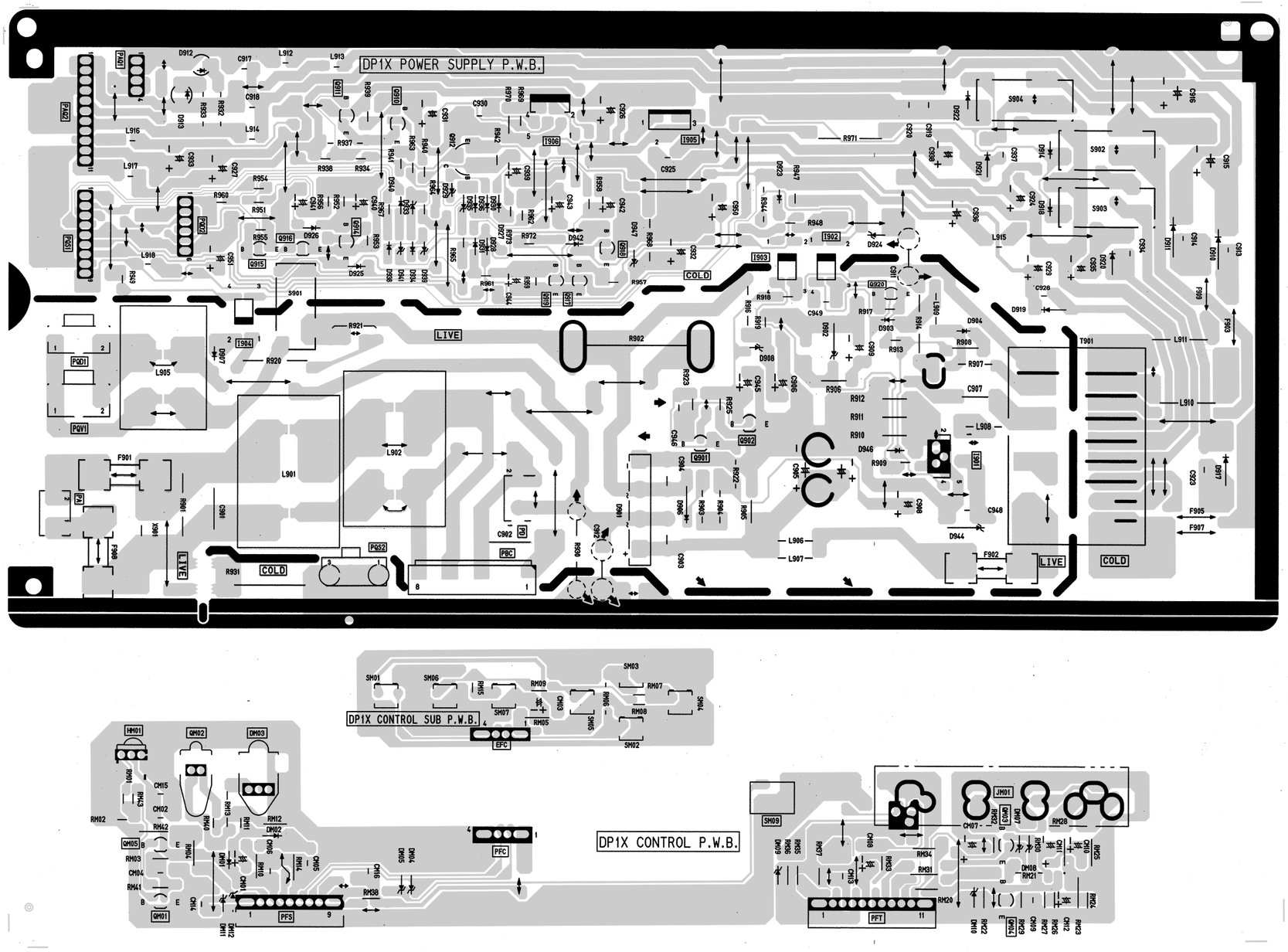
DP1X POWER SUPPLY PWB / DP1X CONTROL PWB


DP1X POWER SUPPLY P.W.B.
JK07122-A TCI-A7S ▲ 94V-Ø
MISE EN GARDE:
POUR UNE PROTECTION CONTINUE LES RISQUES D'INCENDIE.
NE REMPLACER QUE PAR UN FUSIBLE DE MEME CALIBRE.
SERVICMAN WARNING:
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE AND RATING FUSE.
COLD
LIVE
2A 125V
6A 125V



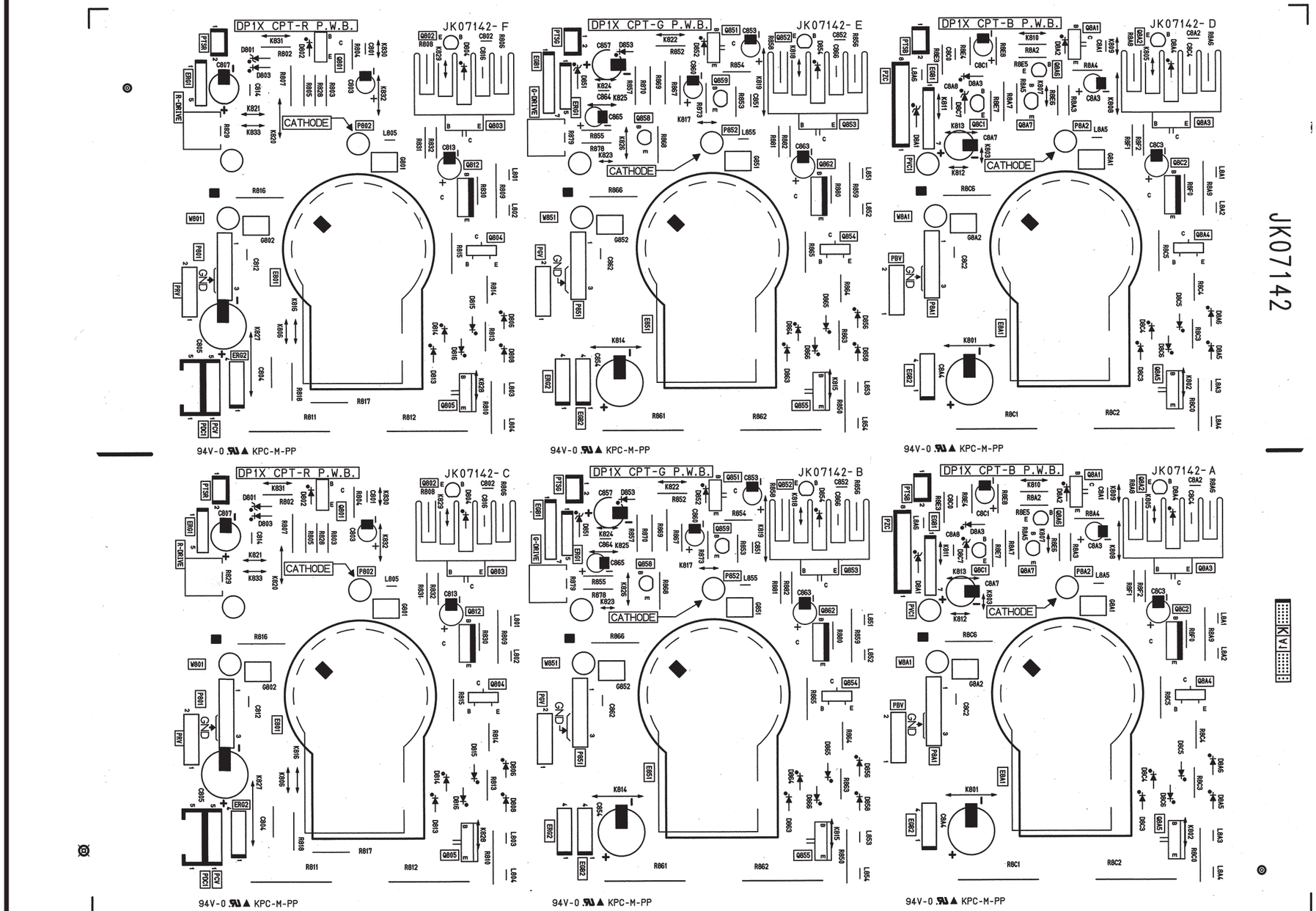
PRINTED CIRCUIT BOARD
PATTERN SIDE

DP1X POWER SUPPLY PWB / DP1X CONTROL PWB



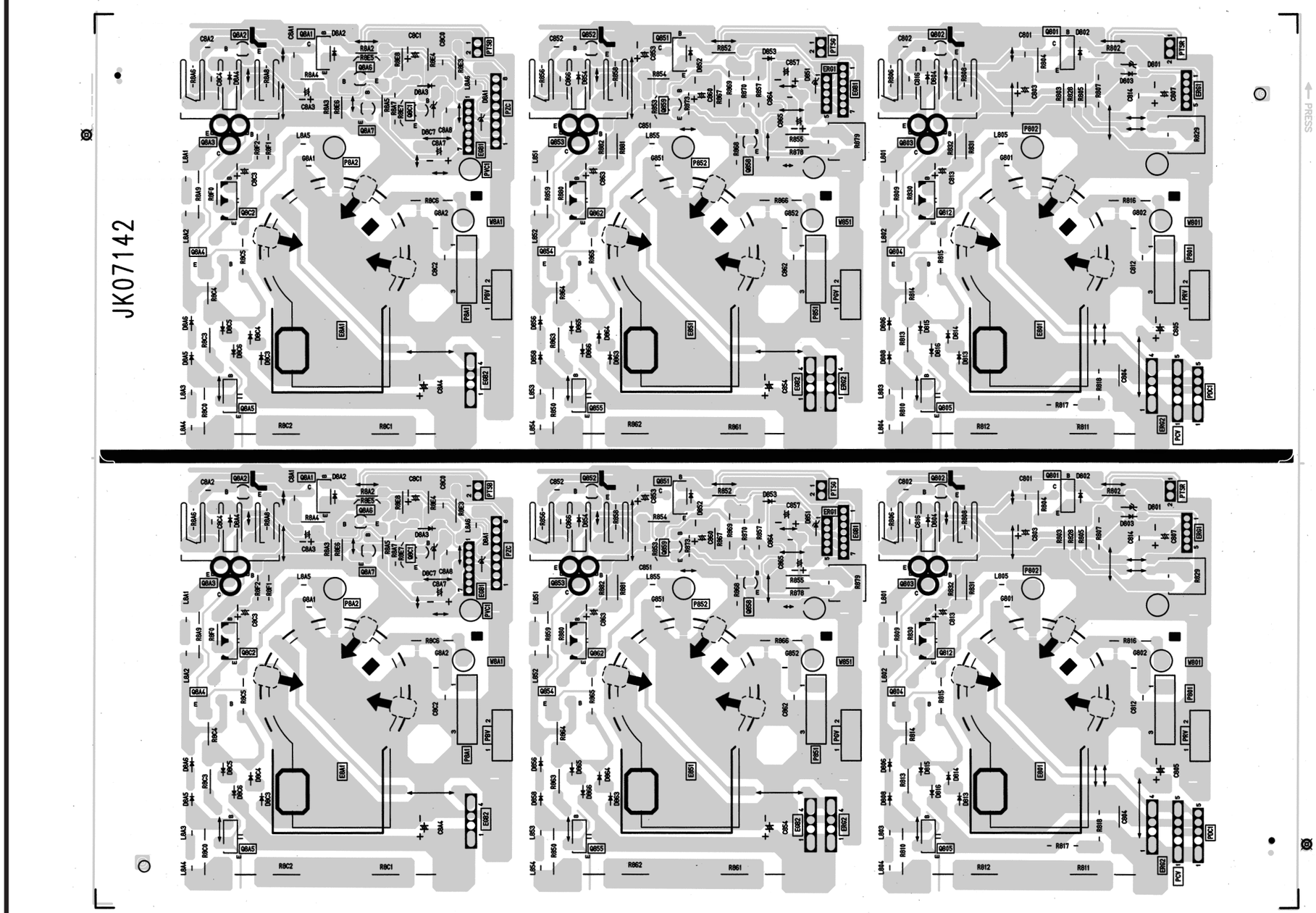
PRINTED CIRCUIT BOARD
COMPONENT SIDE

DP1X CPT P.W.B.

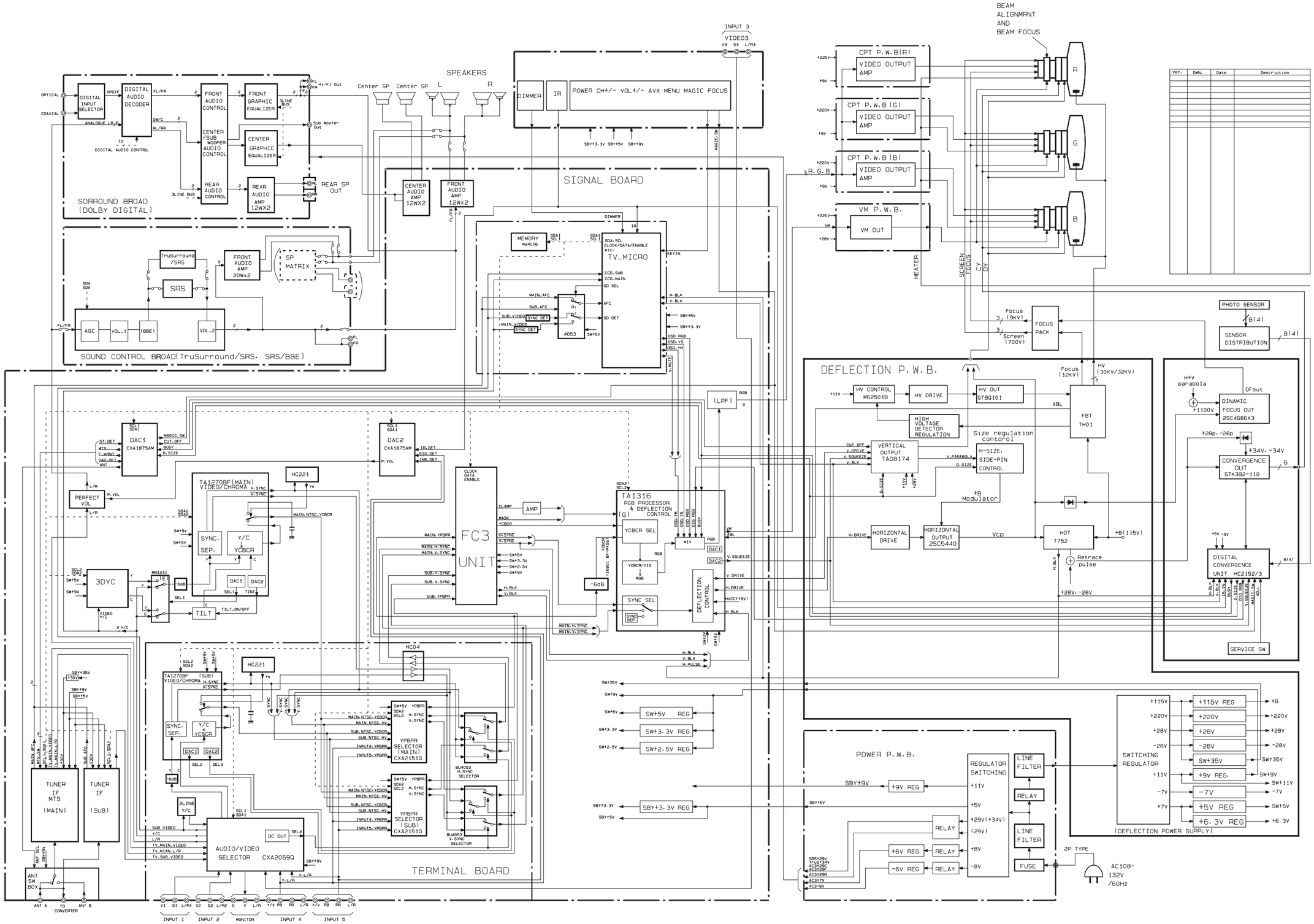


PRINTED CIRCUIT BOARD
PATTERN SIDE

DP1X CPT P.W.B.

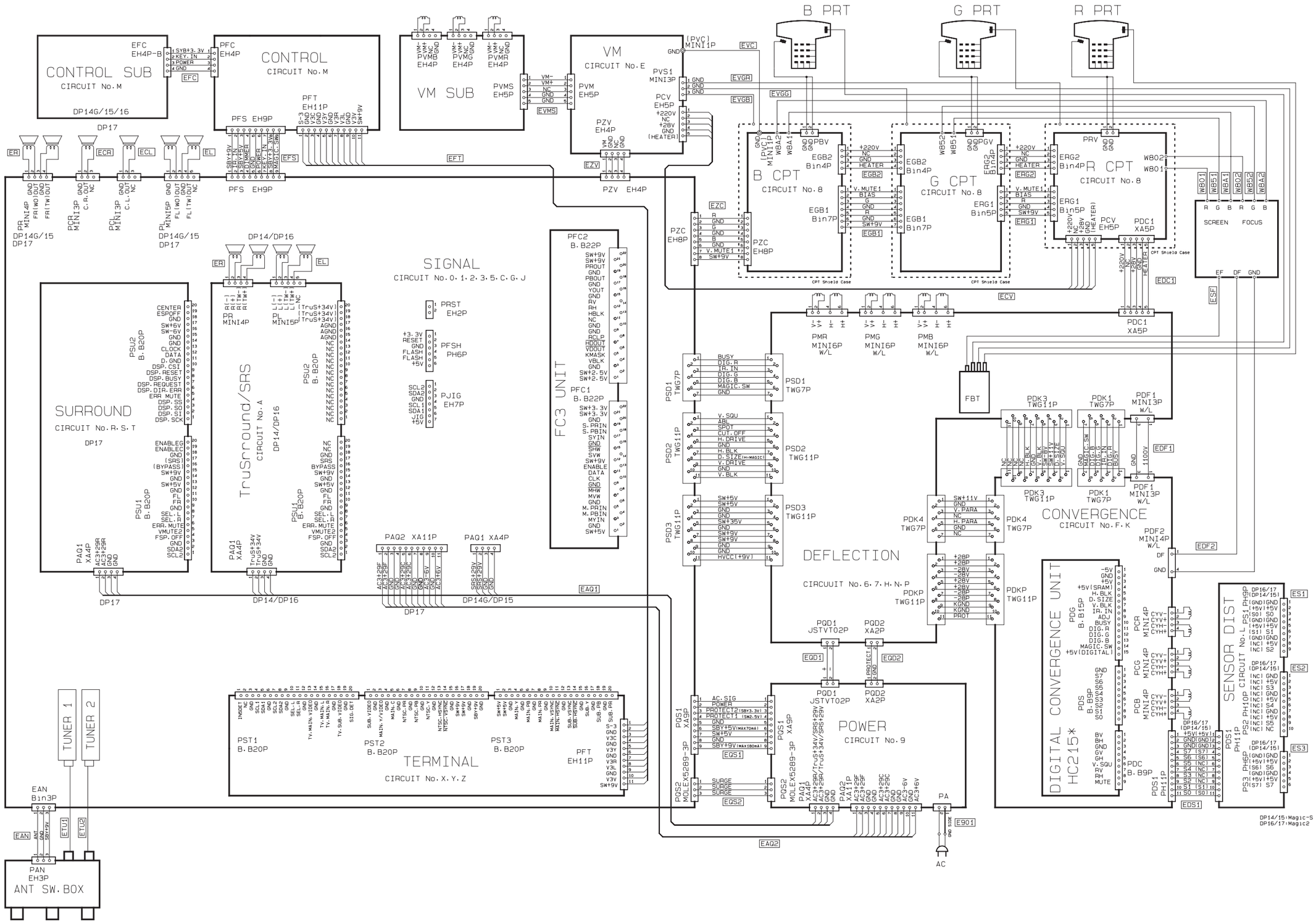


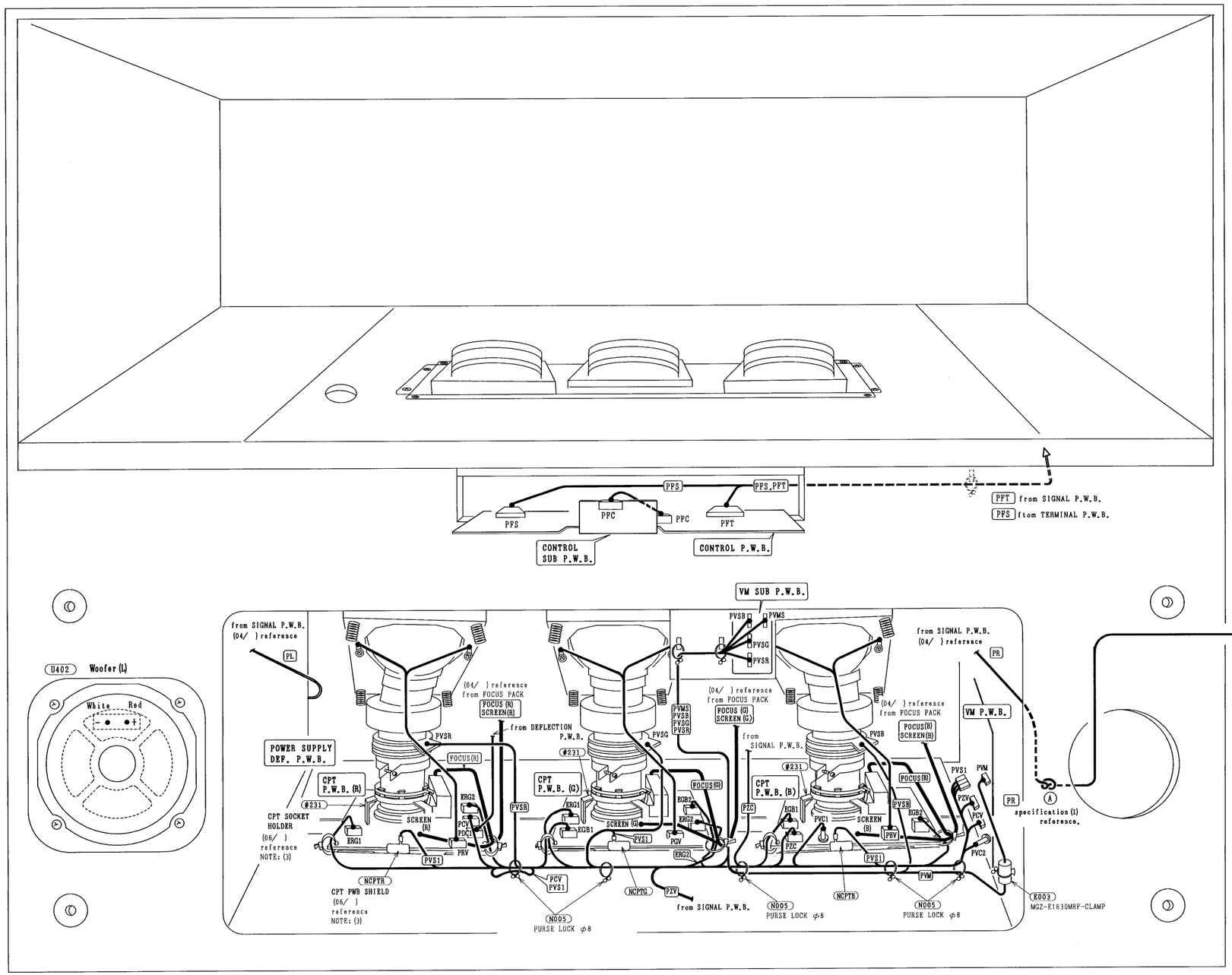
BLOCK DIAGRAM



Ver.	DWN.	Date	Description

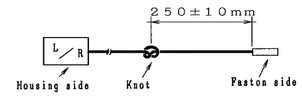
WIRING DIAGRAM



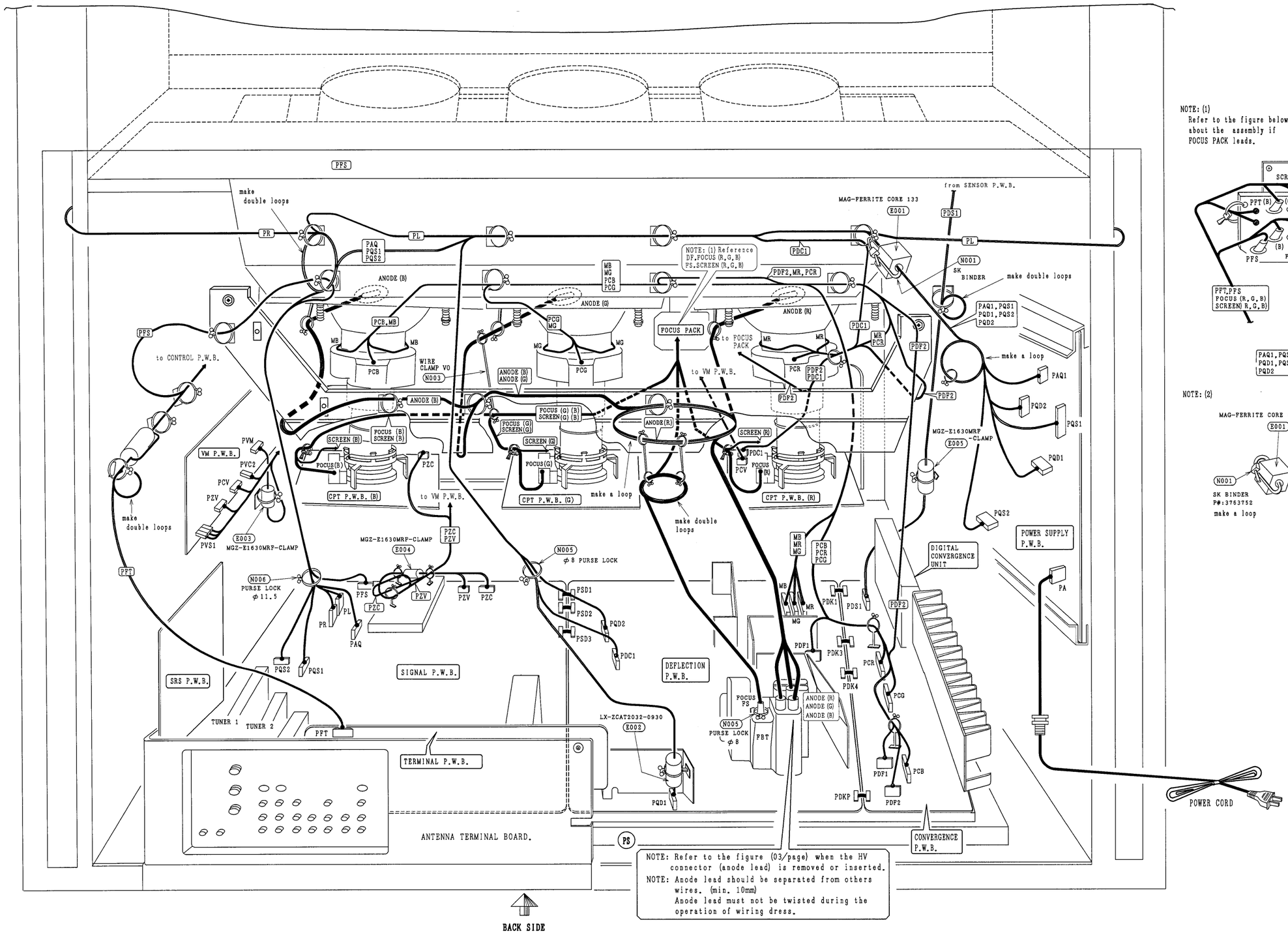


SPECIFICATION

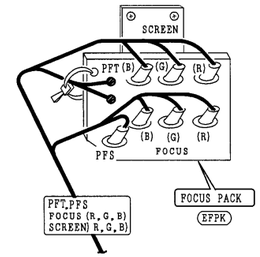
(1) Make a knot as follow below Figure after wires is therugh the hole (A) cabinet.



43UWX10B FINAL WIRING

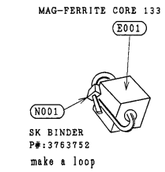


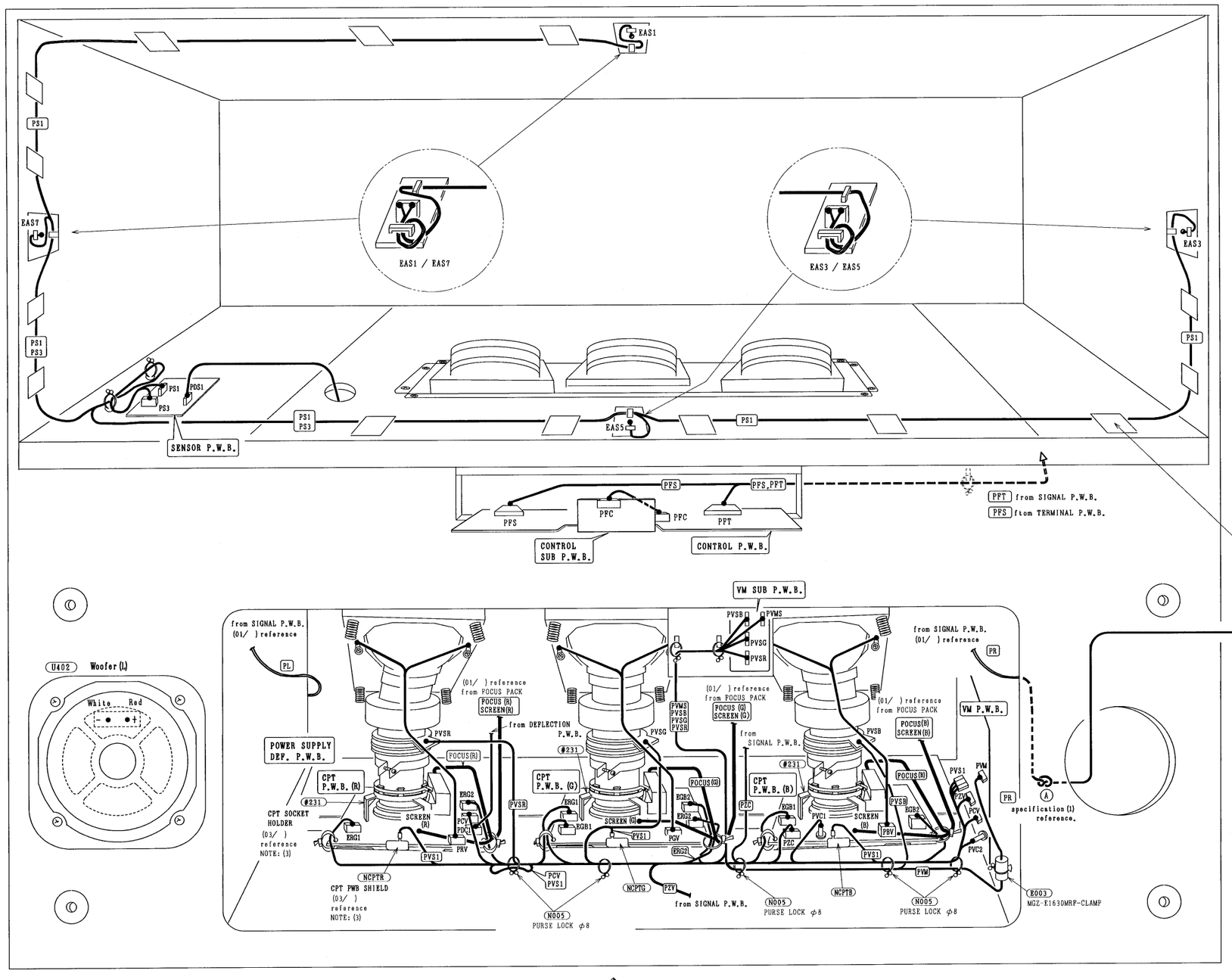
NOTE: (1)
Refer to the figure below
about the assembly if
FOCUS PACK leads.

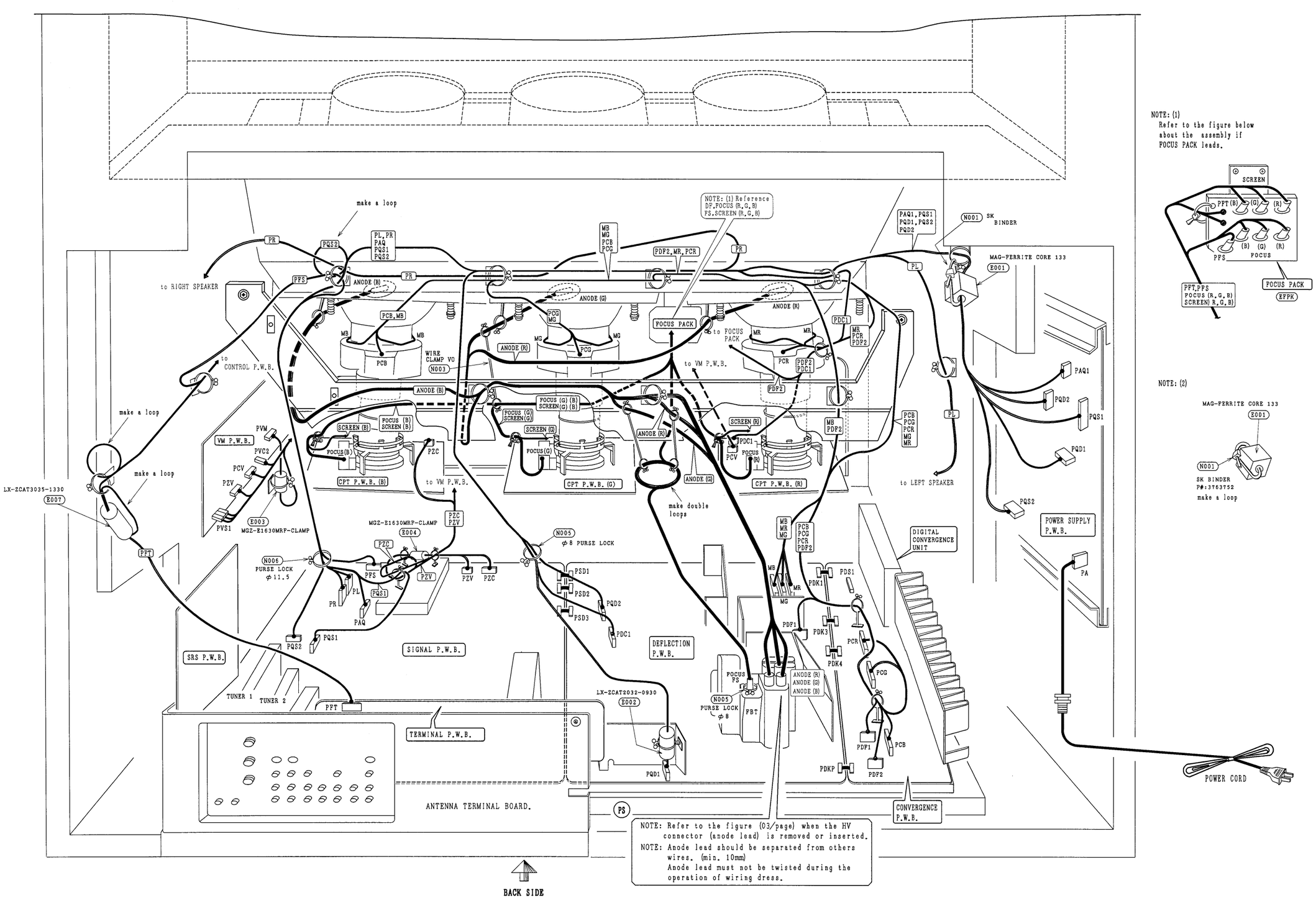


PAQ1,PQS1
PQD1,PQS2
PQD2

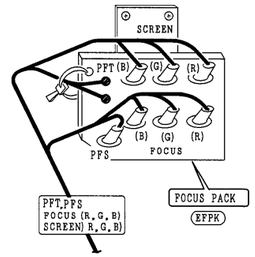
NOTE: (2)




EAS1
PS1
EAS7
PS1
PS3
EAS1 / EAS7
EAS3 / EAS5
EAS3
PS1
PS1
PS3
PS1
PDS1
PS3
SENSOR P.W.B.
PS1
PS3
EAS5
PS1
PFS
PFS,PFT
PFS
PFC
PFC
PFT
CONTROL SUB P.W.B.
CONTROL P.W.B.
PFT from SIGNAL P.W.B.
PFS ftom TERMINAL P.W.B.
VM SUB P.W.B.
PVSB
PVMS
PVSG
PVSR
from SIGNAL P.W.B. (01/) reference
PL
(01/) reference from FOCUS PACK
FOCUS (R) SCREEN(R)
from DEFLECTION P.W.B.
PVSR
FOCUS(R)
POWER SUPPLY DEF. P.W.B.
CPT P.W.B. (R)
#231
CPT SOCKET HOLDER
(03/) reference NOTE: (3)
ERG1
ERG2
SCREEN (R)
PCV
PRV
PVS1
NCPTR
CPT PWB SHIELD
(03/) reference NOTE: (3)
PCV
PVS1
N005
PURSE LOCK φ8
PVMS
PVSB
PVSG
PVSR
CPT P.W.B. (G)
#231
ERG1
EGB1
SCREEN (G)
FOCUS(G)
PVS1
PGV
ERG2
NCPTG
PZV
from SIGNAL P.W.B.
N005
PURSE LOCK φ8
FOCUS (G) SCREEN (G)
from SIGNAL P.W.B.
CPT P.W.B. (B)
#231
EGB2
EGB1
PZC
PVC1
SCREEN (B)
PBV
PVS1
NCPTB
N005
PURSE LOCK φ8
from SIGNAL P.W.B. (01/) reference
PR
(01/) reference from FOCUS PACK
FOCUS(B) SCREEN(B)
VM P.W.B.
PVS1
PVM
PZV
PCV
PBV
PVC2
PVM
PR
A
specification (1) reference.
E003
MGZ-E1630MRP-CLAMP
U402
Woofer (L)
White
Red
SPECIFICATION
(1) Make a knot as follow below Figure after wires is thorugh the hole (A) cabinet.
250±10mm
L
R
Housing side
Knot
Paston side
14 places
red (PCR)
red (PCL)
blue (PCR)
brown (PCL)
Terminal base : Red
Terminal base : white
Put silicon to cabinet hole.
U406
Woofer (R)
FRONT SIDE

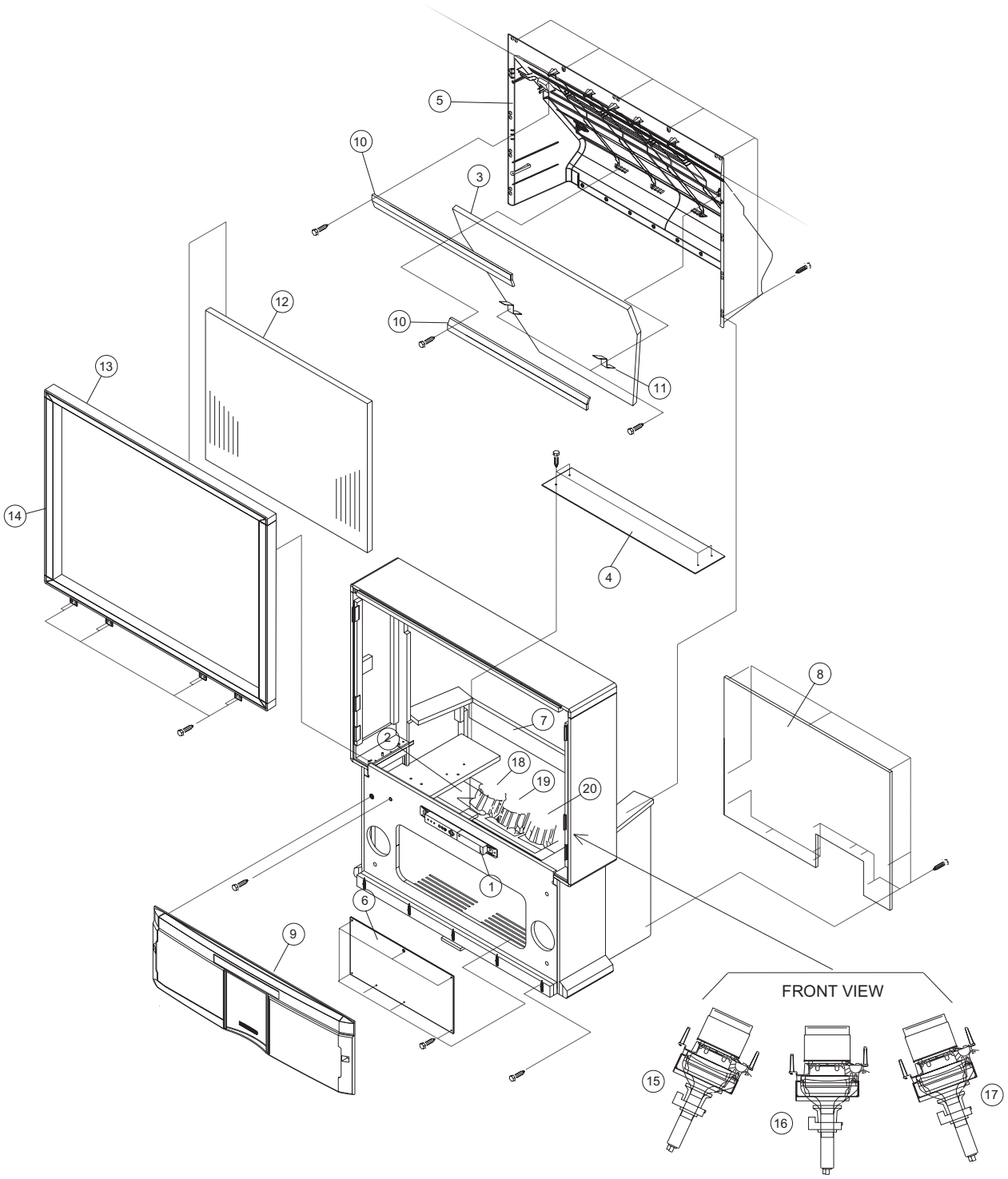


NOTE: (1)
Refer to the figure below about the assembly if FOCUS PACK leads.



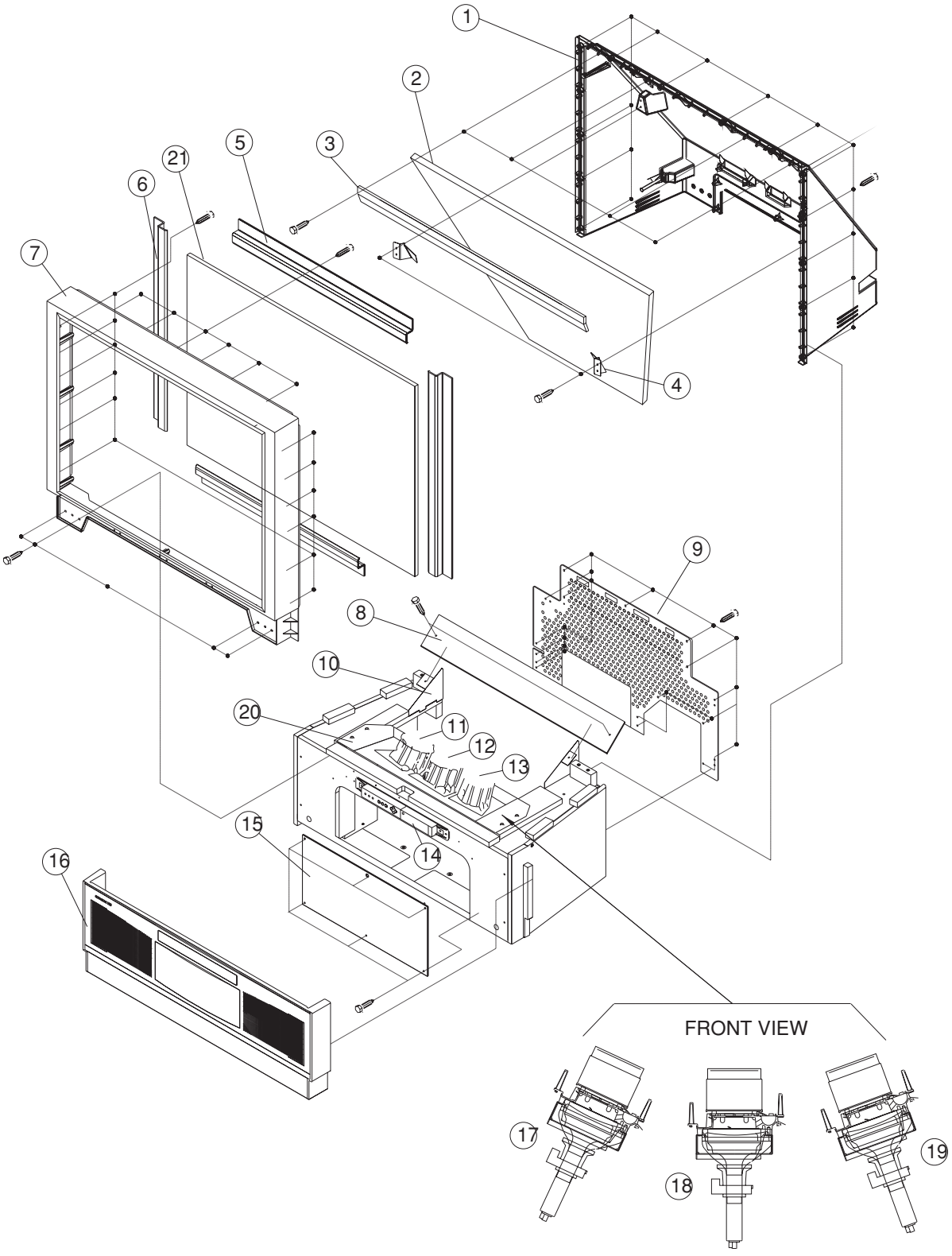
NOTE: (2)

EXPLODED VIEW
53/61SWX and 53/61UWX



NOTES: Some parts may appear different than those shown in the exploded view. When ordering, refer to the replacement parts list for the correct part number. The circled numbers correspond to the parts list shown on page 126.

EXPLODED VIEW
43UWX10B



NOTES: Some parts may appear different than those shown in the exploded view. When ordering, refer to the replacement parts list for the correct part number. The circled numbers correspond to the parts list shown on page 126.

Exploded View Parts List

SYMBOL NO.	PART NO.	PART DESCRIPTION
		43UWX10B EXPLODED VIEW PARTS LIST
1	QD21381	BACK COVER
2	KS02027	MIRROR
3	NA53251	H. MIRROR METAL
4	NA52043/4	CENTRAL METAL R/L
5	NJ05503	H. SCREEN METAL
6	NJ05504	V. SCREEN METAL
7	QD21421	FRAME
8	33010411	BARRIER BOARD
9	H512278	LOWER REAR BOARD
10	NA49723/4	BARRIER SUPPORT METAL
11	KQ00823	DELTA38 C-ELEMENT (R)
12	KQ00822	DELTA38 C-ELEMENT (G)
13	KQ00821	DELTA38 C-ELEMENT (B)
14	PH09741	CONTROL PANEL
15	55020084	FRONT DOOR
16	PH30661	SPEAKER GRILLE
17	UE07781	CPD-LTG ASSY (R)
18	UE07782	CPD-LTG ASSY (G)
19	UE07783	CPD-LTG ASSY (B)
20	NA52171	43" LENS CRT METAL
21	KR01464	SCREEN ASS'Y

SYMBOL NO.	PART NO.	PART DESCRIPTION
		61UWX10B EXPLODED VIEW PARTS LIST
1	PH09741	CONTROL PANEL
2	NA11681	MIRROR METAL
3	KS00163	MIRROR
4	N/A	BARRIER BOARD
5	QG00834	BACK COVER
6	55020083	FRONT DOOR
7	33200073	BACK CENTER BAR
8	H512277	LOWER REAR BOARD
9	PH09692	SPEAKER GRILLE
10	NJ04211	LONG GRIP
11	NJ04231/2	SIDE GRIP
12	KR01467	SCREEN ASSY
13	PH09733	TOP FRAME
14	PH09734	VERTICAL FRAME
15	UE09064	CPC-LFM LENS ASSY (R)
16	UE09065	CPC-LFM LENS ASSY (G)
17	UE09066	CPC-LFM LENS ASSY (B)
18	KQ00821	DELTA38 C-ELEMENT (R)
19	KQ00822	DELTA38 C-ELEMENT (G)
20	KQ00823	DELTA38 C-ELEMENT (B)

SYMBOL NO.	PART NO.	PART DESCRIPTION
		53UWX10B EXPLODED VIEW PARTS LIST
1	PH09741	CONTROL PANEL
2	NA11681	MIRROR METAL
3	KS02021	MIRROR
4	N/A	BARRIER BOARD
5	QG00818	BACK COVER
6	55020083	FRONT DOOR
7	33200073	BACK CENTER BAR
8	H512286	LOWER REAR BOARD
9	PH09672	SPEAKER GRILLE
10	NJ04211	LONG GRIP
11	NJ0423/4	SIDE GRIP
12	KR01466	SCREEN ASSY
13	PH09723	TOP FRAME
14	PH09724	VERTICAL FRAME
15	UE08951	CPC-LFM LENS ASSY (R)
16	UE08952	CPC-LFM LENS ASSY (G)
17	UE08953	CPC-LFM LENS ASSY (B)
18	KQ00821	DELTA38 C-ELEMENT (R)
19	KQ00822	DELTA38 C-ELEMENT (G)
20	KQ00823	DELTA38 C-ELEMENT (B)

SYMBOL NO.	PART NO.	PART DESCRIPTION
		53SWX10B EXPLODED VIEW PARTS LIST
1	PH09741	CONTROL PANEL
2	NA11681	MIRROR METAL
3	KS02021	MIRROR
4	N/A	BARRIER BOARD
5	QG00817	BACK COVER
6	55020075	FRONT DOOR
7	33200071	BACK CENTER BAR
8	H512286	LOWER REAR BOARD
9	PH09671	SPEAKER GRILLE
10	NJ04211	LONG GRIP
11	NJ04233/4	SIDE GRIP
12	KR01073	SCREEN ASSY
13	PH09723	TOP FRAME
14	PH09724	VERTICAL FRAME
15	UE08801	SBB-LFT LENS ASSY (R)
16	UE08802	SBB-LFT LENS ASSY (G)
17	UE08803	SBB-LFM LENS ASSY (B)
18	KQ00425K	SBB-1 LENS (R)
19	KQ00434K	SBB-1 LENS (G)
20	KQ00431K	SBB-1 LENS (B)

SYMBOL NO.	PART NO.	PART DESCRIPTION
		61SWX10B EXPLODED VIEW PARTS LIST
1	PH09741	CONTROL PANEL
2	NA11705	MIRROR METAL
3	KS00166	MIRROR
4	N/A	BARRIER BOARD
5	QD04113	BACK COVER
6	550200085	FRONT DOOR
7	33200073	BACK CENTER BAR
8	H512277	LOWER REAR BOARD
9	PH09691	SPEAKER GRILLE
10	NJ04211	LONG GRIP
11	NJ04231/2	SIDE GRIP
12	KR01072	SCREEN ASSY
13	PH09733	TOP FRAME
14	PH09734	VERTICAL FRAME
15	UE08801	SBB-LFT LENS ASSY (R)
16	UE08802	SBB-LFT LENS ASSY (G)
17	UE08803	SBB-LFT LENS ASSY (B)
18	KQ00435K	SBB-1 LENS (R)
19	KQ00434K	SBB-1 LENS (G)
20	KQ00431K	SBB-1 LENS (B)

REPLACEMENT PARTS LIST

PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don t degrade the safety of the receiver through improper servicing.

ABBREVIATIONS

Capacitors:
- AL: Aluminum Electrolytic
- CD: Ceramic Disc
- EL: Electrolitic
- PF: Polyester Film
- PP: Polypropylene
- PL: Plastic
- TA: Tantalum
- PR: Paper
- TM: Trimmer
- MC: Mylar

Resistors:
- CF: Carbon Film
- CC: Carbon Composition
- MF: Metal Oxide
- VR: Variable Resistor
- WW: Wire Wound
- FR: Fuse Resistor
- MG: Metal Grazed

Semiconductors:
- TR: Transistor
- DI: Diode
- ZD: Zener Diode
- VA: Varistor
- TH: Termistor
- IC: Integrated Circuit

SYMBOL NO.	PART NO.	PART DESCRIPTION
		CAPACITORS
C001	0800326R	CAP.-ELECTRO. 100UF-M 16V
C002	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C003	0800326R	CAP.-ELECTRO. 100UF-M 16V
C004	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C005	0800326R	CAP.-ELECTRO. 100UF-M 16V
C006	0800326R	CAP.-ELECTRO. 100UF-M 16V
C007	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C008	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C009	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE
C010	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE
C011	0893118R	CAP 1608CHIP 27PFJCH 50V TAPE
C012	0893118R	CAP 1608CHIP 27PFJCH 50V TAPE
C013	0893216R	CAP 1608CHIP 3900PFKB 50V TAPE
C014	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C015	0800326R	CAP.-ELECTRO. 100UF-M 16V
C016	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C017	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C018	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
C019	0800319R	CAP.-ELECTRO. 47UF-M 35V
C023	0893205R	CAP 1608CHIP 560PFKB 50V TAPE
C025	0893128R	CAP 1608CHIP 150PFJCH 50V TAPE
C026	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE
C027	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C028	0800326R	CAP.-ELECTRO. 100UF-M 16V
C029	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C030	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C031	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
C032	0800318R	CAP.-ELECTRO. 47UF-M 25V
C034	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C035	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
C036	0800318R	CAP.-ELECTRO. 47UF-M 25V
C038	0800326R	CAP.-ELECTRO. 100UF-M 16V
C039	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE (DP17)
C040	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE (DP17)
C041	0800326R	CAP.-ELECTRO. 100UF-M 16V
C042	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C043	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C044	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C045	0800326R	CAP.-ELECTRO. 100UF-M 16V
C046	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C047	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
C047	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP14G)
C048	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
C048	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP14G)
C049	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C050	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C051	0893213R	CAP1608CHIP 2200PFKB 50V TAPE
C052	0800328R	CAP. ELECTRO. 100UF-M 35V
C053	0800326R	CAP.-ELECTRO. 100UF-M 16V
C054	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C055	0800326R	CAP.-ELECTRO. 100UF-M 16V
C056	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C057	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C058	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C059	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C060	0800326R	CAP.-ELECTRO. 100UF-M 16V
C064	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C065	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C071	0893125R	CAP 1608CHIP 82PFJCH 50V TAPE
C072	0893125R	CAP 1608CHIP 82PFJCH 50V TAPE
C073	0893125R	CAP 1608CHIP 82PFJCH 50V TAPE
C074	0893205R	CAP 1608CHIP 560PFKB 50V TAPE (DP14G)
C074	0893207R	CAP 1608CHIP 820PFKB 50V TAPE (DP17)
C075	0893205R	CAP 1608CHIP 560PFKB 50V TAPE (DP14G)

PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to sefety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don t degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
C075	0893207R	CAP 1608CHIP 820PFKB 50V TAPE (DP17)	C503	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C1A1	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C504	0800352R	CAP.-ELECTRO.470UF 10V
C1A2	0800326R	CAP.-ELECTRO. 100UF-M 16V	C505	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C301	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	C506	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C302	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE	C508	0800352R	CAP.-ELECTRO.470UF 10V
C303	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C509	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C304	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	C510	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C305	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE	C511	0800352R	CAP.-ELECTRO.470UF 10V
C306	0800326R	CAP.-ELECTRO. 100UF-M 16V	C512	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C307	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE	C513	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
C308	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C515	0800326R	CAP.-ELECTRO. 100UF-M 16V
C309	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C516	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C310	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C551	0800326R	CAP.-ELECTRO. 100UF-M 16V
C311	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	C552	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C312	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	C553	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C313	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C554	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C314	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C555	0800326R	CAP.-ELECTRO. 100UF-M 16V
C315	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C556	0893114R	CAP 1608CHIP 12PFJCH 50V TAPE
C316	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C557	0800273R	CAP.-ELECTRO 0.22UF-M 50V
C317	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C558	0893213R	CAP1608CHIP 2200PFKB 50V TAPE
C318	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C559	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C319	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C560	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
C320	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	C561	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C321	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C562	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
C322	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	C563	0893217R	CAP 1608CHIP 4700PFKB 50V TAPE
C323	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	C564	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C324	0893115R	CAP 1608CHIP 15PFJCH 50V TAPE	C565	0800326R	CAP.-ELECTRO. 100UF-M 16V
C325	0893123R	CAP 1608CHIP 56PFJCH 50V TAPE	C566	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C326	0893115R	CAP 1608CHIP 15PFJCH 50V TAPE	C567	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C327	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE	C568	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C328	0800326R	CAP.-ELECTRO. 100UF-M 16V	C569	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C329	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	C570	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C330	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	C571	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C331	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C572	0893123R	CAP 1608CHIP 56PFJCH 50V TAPE
C332	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C573	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C333	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C574	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C334	0893134R	CAP 1608CHIP 390PFJCH 50V TAPE	C575	0800326R	CAP.-ELECTRO. 100UF-M 16V
C335	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C576	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C336	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C577	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)
C337	0893117R	CAP 1608CHIP 22PFJCH 50V TAPE	C578	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
C338	0893117R	CAP 1608CHIP 22PFJCH 50V TAPE	C579	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)
C340	0800326R	CAP.-ELECTRO. 100UF-M 16V	C580	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C341	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C582	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C343	AA01101R	CERAMIC CAPACITOR(1UF 10V-F)	C5C0	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
C344	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE	C5C1	0893132R	CAP 1608CHIP 270PFJCH 50V TAPE
C345	0893111R	CAP 1608CHIP 8PFCCH 50V TAPE	C5C3	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C346	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C5C4	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C347	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE	C5C5	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C348	0800326R	CAP.-ELECTRO. 100UF-M 16V	C5C6	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C349	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE	C5C7	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C350	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	C5C8	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C351	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE	C602	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C352	0800326R	CAP.-ELECTRO. 100UF-M 16V	C603	0880055R	CAP.-POLYESTER 0.068UF-KEB 50V
C353	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	C604	0800347N	CAP.-ELECTRO. 330UF-M(SMG) 50V
C501	0800352R	CAP.-ELECTRO.470UF 10V	C605	0800329R	CAP.-ELECTRO. 100UF-M(SMG) 50V
C502	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE	C606	AL01162R	CAP.ELECTRO 10UF-M(YXF)50V

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SYMBOL NO.	PART NO.	PART DESCRIPTION
C607	AL01143S	CAP.ELECTROLYTIC 2200UF-M(YXF)25V
C608	AL01336R	ALUMINIUM ELECT. CAP. PW(10UF 16V)
C609	0279692R	CAP.-POLYESTER 0.068UF 100V
C610	0800318R	CAP.-ELECTRO. 47UF-M 25V
C611	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C701	0800353R	CAP.-ELECTRO.470UF-M 16V
C702	0880203R	CAP.-POLYESTER 0.47UF-J 50V
C703	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C705	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C707	0244505R	CAP-CER. 0.0022UF-K 500V
C708	0243509R	CAP.-CER. 470PF-K 500V
C709	0890081R	CAP.-CER. 330PF 50V
⚠ C710	AN01646F	3900PF 1500V METALLIZ PP FILM CAPA (DP17)
⚠ C710	AN01648F	4700PF 1500V METALLIZ PP FILM CAPA (DP14G)
⚠ C711	AN01646F	3900PF 1500V METALLIZ PP FILM CAPA (DP17)
⚠ C711	AN01648F	4700PF 1500V METALLIZ PP FILM CAPA (DP14G)
C712	AN01646F	3900PF 1500V METALLIZ PP FILM CAPA (DP17)
C713	AN01176F	CAP. 0.39UF 250V METALLIZ PP (DP14G)
C713	AN01178F	CAP. 0.47UF 250V METALLIZ PP (DP17)
C714	AN01176F	CAP. 0.39UF 250V METALLIZ PP (DP14G)
C714	AN01178F	CAP. 0.47UF 250V METALLIZ PP (DP17)
C715	0284634R	CAP.-ELECTRO 4.7UF-SME(BP) 50V
C716	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C717	AN01657F	10000PF 1500V METALLIZ PP FILM CAP
C718	0244505R	CAP-CER. 0.0022UF-K 500V
C719	0244505R	CAP-CER. 0.0022UF-K 500V
C720	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C721	0800326R	CAP.-ELECTRO. 100UF-M 16V
C722	0880035R	CAP.-POLY 2200PF-50V
C723	AN01181F	CAP. 0.56UF 250V METALLIZ POLYPROPYLENE
C724	AN01181F	CAP. 0.56UF 250V METALLIZ POLYPROPYLENE
C725	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C801	0244136R	CAP.-CER. 270PF-KB B 50V
C802	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V
C803	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C804	0299622F	CAP.-POLYPROPYLENE FILM 0.01UF-J 630V
C805	AL00031R	CAP.-ELECTORO. 33UF-M 250V
C807	0800352R	CAP.-ELECTRO.470UF 10V
C812	AJ00559	CAPACITOT CER. 2200PF2KV
C813	AL00025R	CAP.ALMI 2.2UF250V
C814	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C816	0890087R	CAP.-CER. 1000PF-K 50V
C851	0244119R	CAP.-CER. 390PF-K B 50V
C852	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V
C853	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C854	AL00031R	CAP.-ELECTORO. 33UF-M 250V
C857	0800352R	CAP.-ELECTRO.470UF 10V
C860	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C862	AJ00559	CAPACITOT CER. 2200PF2KV
C863	AL00025R	CAP.ALMI 2.2UF250V
C864	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C865	0800319R	CAP.-ELECTRO. 47UF-M 35V
C866	0890087R	CAP.-CER. 1000PF-K 50V
C8A1	0244136R	CAP.-CER. 270PF-KB B 50V
C8A2	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V
C8A3	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C8A4	AL00031R	CAP.-ELECTORO. 33UF-M 250V
C8A7	0800352R	CAP.-ELECTRO.470UF 10V
C8A8	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C8C0	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C8C1	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
C8C2	AJ00559	CAPACITOT CER. 2200PF2KV
C8C3	AL00025R	CAP.ALMI 2.2UF250V
C8C4	0890087R	CAP.-CER. 1000PF-K 50V
⚠ C901	AN01445S	ACROSS CAPA 0.22UF 250V RE224
⚠ C902	AN01443S	ACROSS CAPA 0.1UF 250V RE104
⚠ C903	AJ00195F	CAP. CER. CK45-F2EA472ZYNN
⚠ C904	AJ00195F	CAP. CER. CK45-F2EA472ZYNN
C905	AL01743	CAP.ALUMI.250V 330UF KMH(M) ((DP17)
C905	AL01749	120UF 250V KMH(M)AL. ELEC. CAPA (DP14G)
C907	0299616F	CAP.-POLYPROPYLENE FILM 0.0033UF-J 630V
C908	0800319R	CAP.-ELECTRO. 47UF-M 35V
C909	0800329R	CAP.-ELECTRO. 100UF-M(SMG) 50V
C910	0800319R	CAP.-ELECTRO. 47UF-M 35V
⚠ C911	AJ00184F	CAP. CER. CD12-E2GA222MYNS
⚠ C912	AJ00182F	CAP. CER. CD85-E2GA102MYNS
C913	0243511R	CAP.-CER. 680PF-K 500V TAPE
C914	0243511R	CAP.-CER. 680PF-K 500V TAPE (DP17)
C915	AL01875R	1000UF 50V AL ELECTROLYTIC CAP.
C916	AL01875R	1000UF 50V AL ELECTROLYTIC CAP. (DP17)
C917	0880198R	CAP.-PLOY. 0.22UF-J 50V
C918	0880198R	CAP.-PLOY. 0.22UF-J 50V (DP17)
C919	0244105R	CAP.-CER. 2200PF-K 50V TAPE
C920	0880009R	CAP.-POLYESTER 0.01UF-K 50V
C923	0243511R	CAP.-CER. 680PF-K 500V TAPE (DP17)
C924	AL01129S	CAP.ELECTROLYTIC 1000UF-M(YXF)16V (DP17)
C925	0880194R	CAP.-POLYESTER 0.1UF-J 50V (DP17)
C926	0800353R	CAP.-ELECTRO.470UF-M 16V (DP17)
C927	0800353R	CAP.-ELECTRO.470UF-M 16V (DP17)
C928	0243511R	CAP.-CER. 680PF-K 500V TAPE
C929	AL01129S	CAP.ELECTROLYTIC 1000UF-M(YXF)16V
C930	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C931	0800353R	CAP.-ELECTRO.470UF-M 16V
C932	0800353R	CAP.-ELECTRO.470UF-M 16V
C933	0800353R	CAP.-ELECTRO.470UF-M 16V (DP17)
C934	0243503R	CAP.-CER. 150PF-K B 500V
C935	AL01117S	CAP.ELECTR.1000UF-M(YXF)10V
C936	0800367N	CAP.-ELECTRO. 2200UF-M 16V
C937	0243511R	CAP.-CER. 680PF-K 500V TAPE (DP17)
C938	AL01128R	CAP.ELECTR.470UF-M(YXF)16V (DP17)
C939	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
C940	0800319R	CAP.-ELECTRO. 47UF-M 35V
C941	0800319R	CAP.-ELECTRO. 47UF-M 35V
C942	0800319R	CAP.-ELECTRO. 47UF-M 35V
C943	0800319R	CAP.-ELECTRO. 47UF-M 35V
C944	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C945	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
C946	0880194R	CAP.-POLYESTER 0.1UF-J 50V
C948	0270425R	CAP.-POLY.1200PF 50V
C949	0880198R	CAP.-PLOY. 0.22UF-J 50V
C950	0800361N	CAP.-ELECTRO 1000UF 16V
C951	0800361N	CAP.-ELECTRO 1000UF 16V

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CA01	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CA88	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP14G)
CA02	0893215R	CAP 1608CHIP 3300PFKB 50V TAPE (DP14G)	CAF1	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE (DP14G)
CA03	0893186R	CER. CAP.(33000PF 16V) (DP14G)	CAF2	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE (DP14G)
CA04	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC01	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA05	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC02	0893121R	CAP 1608CHIP 39PFJCH 50V TAPE
CA06	0893217R	CAP 1608CHIP 4700PFKB 50V TAPE (DP14G)	CC03	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA07	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP14G)	CC04	0800326R	CAP.-ELECTRO. 100UF-M 16V
CA08	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP14G)	CC05	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CA09	0284623R	CAP.-ELECTRO. 1UF-SME(BP) 50V (DP14G)	CC06	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
CA10	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP14G)	CC07	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA11	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V (DP14G)	CC08	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA12	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V (DP14G)	CC09	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA13	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP14G)	CC10	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
CA14	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP14G)	CC11	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA15	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP14G)	CC12	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA16	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP14G)	CC13	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA17	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V (DP14G)	CC14	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA18	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V (DP14G)	CC15	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V
CA19	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V (DP14G)	CC16	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA20	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP14G)	CC17	0800352R	CAP.-ELECTRO.470UF 10V
CA21	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP14G)	CC18	0800361N	CAP.-ELECTRO 1000UF 16V
CA22	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP14G)	CC19	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA23	0893217R	CAP 1608CHIP 4700PFKB 50V TAPE (DP14G)	CC20	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CA24	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC21	0893214R	CAP 1608CHIP 2700PFKB 50V TAPE
CA25	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC22	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
CA26	0893186R	CER. CAP.(33000PF 16V) (DP14G)	CC23	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA27	0893215R	CAP 1608CHIP 3300PFKB 50V TAPE (DP14G)	CC24	0800352R	CAP.-ELECTRO.470UF 10V
CA28	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC25	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CA29	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP14G)	CC26	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA30	0893222R	CAP 1608CHIP10000PFKB 50V TAPE (DP14G)	CC27	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
CA31	0880198R	CAP.-PLOY. 0.22UF-J 50V (DP14G)	CC28	0284634R	CAP.-ELECTRO 4.7UF-SME(BP) 50V
CA32	0893217R	CAP 1608CHIP 4700PFKB 50V TAPE (DP14G)	CC29	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA33	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE(DP14G)	CC30	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CA34	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP14G)	CC31	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CA35	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP14G)	CC32	0800326R	CAP.-ELECTRO. 100UF-M 16V
CA36	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP14G)	CC33	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CA37	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP14G)	CC34	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CA38	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC35	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CA39	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC36	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA40	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC37	0800326R	CAP.-ELECTRO. 100UF-M 16V
CA41	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC38	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA42	0880203R	CAP.-POLYESTER 0.47UF-J 50V (DP14G)	CC39	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA43	0880201R	CAP.-POLYESTER 0.33UF-J 50V (DP14G)	CC40	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA44	0893222R	CAP 1608CHIP10000PFKB 50V TAPE (DP14G)	CC41	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA45	0893186R	CER. CAP.(33000PF 16V) (DP14G)	CC42	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA46	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC43	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CA47	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC45	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
CA67	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP14G)	CC46	0800326R	CAP.-ELECTRO. 100UF-M 16V
CA68	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP14G)	CC47	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA69	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC50	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA70	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC51	0800326R	CAP.-ELECTRO. 100UF-M 16V
CA71	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP14G)	CC52	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA72	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC55	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA73	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP14G)	CC56	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA81	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP14G)	CC59	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CA86	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP14G)	CC60	0893232R	CAP 1608CHIP 100000PFZF25V TAPE

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SYMBOL NO.	PART NO.	PART DESCRIPTION
CC64	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CC65	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CC66	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC67	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CC68	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC69	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC70	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CC71	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC72	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC73	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CC74	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC75	0800326R	CAP.-ELECTRO. 100UF-M 16V
CC76	0800326R	CAP.-ELECTRO. 100UF-M 16V
CE02	0800321R	CAP.-ELECTRO. 47UF-M 50V
CE03	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CE04	0890066R	CAP.CER. 27PF-J 50V
CE05	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CE06	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V
CE07	0890061R	CAP.-CER. 10PF- 50V
CE09	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CE10	0800321R	CAP.-ELECTRO. 47UF-M 50V
CE13	0244541F	CAP.-CER. 0.01MF-K B 500V
CE14	0244541F	CAP.-CER. 0.01MF-K B 500V
CE15	0880039R	CAP.-POLYESTER 0.0047UF-KEB50V
CE16	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CE24	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CE25	AL00027R	CAP.-ELECTORO. 4.7UF-M 250V
CE26	AL01166R	CAP.ELECTROLYTIC 100UF-M(YXF)50V
CE27	AL01166R	CAP.ELECTROLYTIC 100UF-M(YXF)50V
CE28	0800303R	CAP.-ELECTRO. 22UF-M 50V
CE29	0800303R	CAP.-ELECTRO. 22UF-M 50V
CE30	0247848R	CAP.-CER. 56PF-J SL 500V
CE31	0247848R	CAP.-CER. 56PF-J SL 500V
CE32	AL00032R	CAP.-ELECTORO. 47UF-M 250V
CE33	0244541F	CAP.-CER. 0.01MF-K B 500V
CF01	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CF02	0255520R	CAP.-ELECTRO 0.47UF 250V(KME)
CF03	AN01631F	1000PF1500VMETALLIZ POLYPROPYLENE FILM CAPA
CF04	0880034R	CAP.-POLYESTER 0.0018UF-KEB50V
CF05	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CF06	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CF18	0245158	CAPACITOT CER. 68PF/2KV
CF19	0245156	CAPACITOT CER. 22PF/2KV
CH01	0800326R	CAP.-ELECTRO. 100UF-M 16V
CH02	0890074R	CAP.-CER. 100PF-J 50V
CH03	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V
CH05	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CH06	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CH07	0880033R	CAP.-POLYESTER 0.0015UF-KEB50V
CH08	0800326R	CAP.-ELECTRO. 100UF-M 16V
CH09	0880198R	CAP.-PLOY. 0.22UF-J 50V
CH10	0880194R	CAP.-POLYESTER 0.1UF-J 50V
⚠ CH13	AN01113F	1200PF 1800V METALLIZ POLYPROPYLENE FILM CAPA
CH14	0279693R	CAP.-POLYESTER FLM 0.1UF
CH15	0880038R	CAP.-POLYESTER 0.0039UF-KEB50V
CH16	AL01724	CAP.ALUMI.160V 390UF KMH(M)
CH17	0284623R	CAP.-ELECTRO. 1UF-SME(BP) 50V
CH18	0880198R	CAP.-PLOY. 0.22UF-J 50V
CH19	0284623R	CAP.-ELECTRO. 1UF-SME(BP) 50V
CH20	AN01111F	1000PF 1800V METALLIZ POLYPROPYLENE FILM CAPA
CJ01	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CJ02	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CJ04	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CJ05	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CJ06	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
CJ07	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
CJ08	AA01111R	CER. CAP.(1.0UF 6.3V)
CJ09	AA01111R	CER. CAP.(1.0UF 6.3V)
CJ10	0800318R	CAP.-ELECTRO. 47UF-M 25V
CJ11	0800318R	CAP.-ELECTRO. 47UF-M 25V
CJ12	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CJ13	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CJ14	0284824F	CAP.-ELECTRO. 2200UF 35V
CJ15	0800328R	CAP. ELECTRO. 100UF-M 35V
CJ16	0800328R	CAP. ELECTRO. 100UF-M 35V
CJ17	0800318R	CAP.-ELECTRO. 47UF-M 25V
CJ18	0284824F	CAP.-ELECTRO. 2200UF 35V
CJ19	0893227R	CER. CAP.(220000PF 16V)
CJ20	0893227R	CER. CAP.(220000PF 16V)
CJ21	0284824F	CAP.-ELECTRO. 2200UF 35V
CJ22	0893227R	CER. CAP.(220000PF 16V)
CJ23	0893227R	CER. CAP.(220000PF 16V)
CJ26	0258616	CAP.-ELECTRO 2.2UF-M 50V (DP17)
CJ27	0258616	CAP.-ELECTRO 2.2UF-M 50V (DP17)
CJ28	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CJ29	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CJ30	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CJ31	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CJ32	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE (DP17)
CJ33	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE (DP17)
CJ35	AA01111R	CER. CAP.(1.0UF 6.3V) (DP17)
CJ36	0893232R	CAP 1608CHIP 100000PFZF25V TAPE (DP17)
CJ37	AA01111R	CER. CAP.(1.0UF 6.3V) (DP17)
CJ38	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)
CJ39	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)
CJ40	0880194R	CAP.-POLYESTER 0.1UF-J 50V (DP17)
CJ41	0800328R	CAP. ELECTRO. 100UF-M 35V (DP17)
CJ42	0800328R	CAP. ELECTRO. 100UF-M 35V (DP17)
CJ43	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)
CJ44	0284824F	CAP.-ELECTRO. 2200UF 35V (DP17)
CJ45	0284824F	CAP.-ELECTRO. 2200UF 35V (DP17)
CJ46	0893227R	CER. CAP.(220000PF 16V) (DP17)
CJ47	0893227R	CER. CAP.(220000PF 16V) (DP17)
CJ49	0284824F	CAP.-ELECTRO. 2200UF 35V (DP17)
CJ50	0893227R	CER. CAP.(220000PF 16V) (DP17)
CJ51	0893227R	CER. CAP.(220000PF 16V) (DP17)
CJ53	0284634R	CAP.-ELECTRO 4.7UF-SME(BP) 50V (DP17)
CJ54	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V (DP17)
CJ55	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)
CJ56	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CJ57	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CJ58	0284634R	CAP.-ELECTRO 4.7UF-SME(BP) 50V (DP17)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CK01	0800335R	CAP.-ELECTRO. 220UF-M(SMG) 16V	CN03	0800288R	CAP.-ELECTRO. 4.7UF-M(SMG) 50V
CK03	0800326R	CAP.-ELECTRO. 100UF-M 16V	CN04	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CK04	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CN05	0880035R	CAP.-POLY 2200PF-50V
CK05	0800353R	CAP.-ELECTRO.470UF-M 16V	CN06	0800326R	CAP.-ELECTRO. 100UF-M 16V
CK06	0880194R	CAP.-POLYESTER 0.1UF-J 50V	⚠ CP01	AJ00195F	CAP. CER. CK45-F2EA472ZYNN
CK07	0800326R	CAP.-ELECTRO. 100UF-M 16V	⚠ CP02	AJ00195F	CAP. CER. CK45-F2EA472ZYNN
CK08	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CP03	0284795F	CAP.ALUMI.250V 680UF MXR
CK09	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CP04	0284795F	CAP.ALUMI.250V 680UF MXR
CK10	0800326R	CAP.-ELECTRO. 100UF-M 16V	CP05	0800337R	CAP.-ELECTRO 220UF 35V (SMG TY PE)
CK11	0880035R	CAP.-POLY 2200PF-50V	CP06	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CK12	0890076R	CAP.CER. 150PF-K 50V	CP07	0890085R	CAP.-CER. 680PF-K 50V
CK15	0880031R	CAP.-POLY.1000PF-K 50V	CP09	0299616F	CAP.-POLYPROPYLENE FILM 0.0033UF-J 630V
CK18	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V	⚠ CP10	AJ00182F	CAP. CER. CD85-E2GA102MYNS
CK19	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V	CP11	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CK20	0890076R	CAP.CER. 150PF-K 50V	CP12	0800352R	CAP.-ELECTRO.470UF 10V
CK21	0890076R	CAP.CER. 150PF-K 50V	CP13	0243509R	CAP.-CER. 470PF-K 500V
CK22	0890083R	CAP.-CER. 470PF-K 50V	CP14	0244501R	CAP.-CER. 1000PF-K 500V
CK23	0890076R	CAP.CER. 150PF-K 50V	CP15	0243511R	CAP.-CER. 680PF-K 500V TAPE
CK24	0890076R	CAP.CER. 150PF-K 50V	CP16	0244501R	CAP.-CER. 1000PF-K 500V
CK25	0890076R	CAP.CER. 150PF-K 50V	CP17	0244202R	CAP. CER. DE0907R471K2K
CK27	0800356N	CAP.-ELECTRO. 470UF-M 50V	CP18	0244202R	CAP. CER. DE0907R471K2K
CK28	0800356N	CAP.-ELECTRO. 470UF-M 50V	CP19	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CK29	0890076R	CAP.CER. 150PF-K 50V	CP20	AL01851R	2200UF 16V ALUMINIUM ELECTROLYTIC CAP.
CK30	0890076R	CAP.CER. 150PF-K 50V	CP21	0880194R	CAP.-POLYESTER 0.1UF-J 50V
CK31	0890076R	CAP.CER. 150PF-K 50V	CP22	AL01851R	2200UF 16V ALUMINIUM ELECTROLYTIC CAP.
CK32	0890076R	CAP.CER. 150PF-K 50V	CP23	AL01129S	CAP.ELECTROLYTIC 1000UF-M(YXF)16V
CK33	0890076R	CAP.CER. 150PF-K 50V	CP24	0243511R	CAP.-CER. 680PF-K 500V TAPE
CK34	0890076R	CAP.CER. 150PF-K 50V	CP25	0284405R	CAP.-ELECTRO. 220UF-M 16V
CK36	0800355N	CAP.ELECTRO. 470UF-M 35V	CP26	AL01129S	CAP.ELECTROLYTIC 1000UF-M(YXF)16V
CK37	0800355N	CAP.ELECTRO. 470UF-M 35V	CP27	AL01129S	CAP.ELECTROLYTIC 1000UF-M(YXF)16V
CK43	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V	CP28	AL01153S	CAP.ELECTR. 1000UF-M 35V
CL01	0880053R	CAP.-POLYESTER 0.047UF-KEB 50V	CP29	AL01153S	CAP.ELECTR. 1000UF-M 35V
CL02	0880053R	CAP.-POLYESTER 0.047UF-KEB 50V	CP30	0800355N	CAP.ELECTRO. 470UF-M 35V
CL03	0880053R	CAP.-POLYESTER 0.047UF-KEB 50V (DP17)	CP31	0800355N	CAP.ELECTRO. 470UF-M 35V
CL04	0880053R	CAP.-POLYESTER 0.047UF-KEB 50V (DP17)	CP32	AL01723	CAP.ALUMI.160V 330UF KMH(M)
CL05	0880053R	CAP.-POLYESTER 0.047UF-KEB 50V (DP17)	CP33	AL02323	CE-101M251EW(KMX)D16
CL06	0880053R	CAP.-POLYESTER 0.047UF-KEB 50V (DP17)	CP34	0800319R	CAP.-ELECTRO. 47UF-M 35V
CL07	0880053R	CAP.-POLYESTER 0.047UF-KEB 50V	CP35	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CL08	0880053R	CAP.-POLYESTER 0.047UF-KEB 50V	CP36	0800303R	CAP.-ELECTRO. 22UF-M 50V
CL09	0800326R	CAP.-ELECTRO. 100UF-M 16V	CP37	0800326R	CAP.-ELECTRO. 100UF-M 16V
CL10	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CP38	0800334R	CAP.-ELECTRO. 220UF 10V
CM01	0800303R	CAP.-ELECTRO. 22UF-M 50V	CP39	AL01129S	CAP.ELECTROLYTIC 1000UF-M(YXF)16V
CM02	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V	CP40	0800361N	CAP.-ELECTRO 1000UF 16V
CM03	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V	CP42	AL01117S	CAP.ELECTR.1000UF-M(YXF)10V
CM04	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V	CP43	AL01117S	CAP.ELECTR.1000UF-M(YXF)10V
CM05	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V	CS01	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)
CM06	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CS02	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CM09	0880044R	CAP.-POLYESTER 0.01UF-KEB 50V	CS11	0893222R	CAP 1608CHIP10000PFKB 50V TAPE (DP17)
CM10	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	CS13	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CM11	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	CS15	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CM12	0800318R	CAP.-ELECTRO. 47UF-M 25V	CS17	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CM14	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CS18	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CM15	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CS19	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CM16	0880194R	CAP.-POLYESTER 0.1UF-J 50V	CS21	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CN01	0890084R	CAP.-CER. 560PF-K 50V	CS23	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CN02	0880051R	CAP.-POLYESTER 0.033UF-KEB 50V	CS24	0893176R	CAP.CHIP-CER. 56000PF 16V TAPE (DP17)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CS25	0880195R	CAP.-POLYESTER 0.12UF-J 50V TAPE (DP17)	CS94	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)
CS26	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CS95	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CS28	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)	CS96	AA01121R	CER. CAP.(0.47UF 10V) (DP17)
CS30	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CS97	0893198R	CER. CAP.(27000PF 25V) (DP17)
CS31	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)	CS98	0893226R	CER. CAP.(150000PF 16V) (DP17)
CS32	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CS99	0893218R	CAP 1608CHIP 5600PFKB 50V TAPE (DP17)
CS33	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)	CSA1	0893186R	CER. CAP.(33000PF 16V) (DP17)
CS34	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSA2	0893213R	CAP1608CHIP 2200PFKB 50V TAPE (DP17)
CS35	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSA3	0893222R	CAP 1608CHIP10000PFKB 50V TAPE (DP17)
CS36	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSA4	0893206R	CAP 1608CHIP 680PFKB 50V TAPE (DP17)
CS37	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSA5	0893213R	CAP1608CHIP 2200PFKB 50V TAPE (DP17)
CS38	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSA6	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)
CS39	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSA7	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CS40	0893221R	CAP 1608CHIP 8200PFKB 50V TAPE (DP17)	CSA9	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)
CS41	0893245R	CAP 1608CHIP 15000PFKB 50V TAPE (DP17)	CSE2	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)
CS42	AA01128R	CER. CAP.(0.33UF 10V) (DP17)	CSE3	0893186R	CER. CAP.(33000PF 16V) (DP17)
CS43	AA01128R	CER. CAP.(0.33UF 10V) (DP17)	CSE4	0284623R	CAP.-ELECTRO. 1UF-SME(BP) 50V (DP17)
CS44	0893245R	CAP 1608CHIP 15000PFKB 50V TAPE (DP17)	CSE5	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CS45	0893221R	CAP 1608CHIP 8200PFKB 50V TAPE (DP17)	CSE7	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CS46	0284628R	CAP.-ELECTRO. 3.3UF-SME(BP)50V (DP17)	CSE8	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CS47	0284628R	CAP.-ELECTRO. 3.3UF-SME(BP)50V (DP17)	CSF1	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE (DP17)
CS48	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSF3	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CS49	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)	CSF4	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)
CS50	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSF9	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CS51	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)	CSH1	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)
CS52	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSH2	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)
CS53	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSH3	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CS54	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSH8	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CS55	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSH9	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CS56	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSJ1	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CS57	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSJ2	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CS58	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSJ3	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE (DP17)
CS63	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSJ4	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE (DP17)
CS64	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSJ6	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CS66	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)	CSJ7	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V (DP17)
CS69	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSJ8	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)
CS70	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSJ9	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)
CS75	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSK1	0800328R	CAP. ELECTRO. 100UF-M 35V (DP17)
CS76	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSK2	0800328R	CAP. ELECTRO. 100UF-M 35V (DP17)
CS77	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)	CSK3	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)
CS78	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSK4	0880198R	CAP.-PLOY. 0.22UF-J 50V (DP17)
CS79	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSK5	0284824F	CAP.-ELECTRO. 2200UF 35V (DP17)
CS80	AA01121R	CER. CAP.(0.47UF 10V) (DP17)	CSK6	0893227R	CER. CAP.(220000PF 16V) (DP17)
CS81	0893198R	CER. CAP.(27000PF 25V) (DP17)	CSK7	0893227R	CER. CAP.(220000PF 16V) (DP17)
CS82	0893226R	CER. CAP.(150000PF 16V) (DP17)	CSK8	0893227R	CER. CAP.(220000PF 16V) (DP17)
CS83	0893218R	CAP 1608CHIP 5600PFKB 50V TAPE (DP17)	CSK9	0893227R	CER. CAP.(220000PF 16V) (DP17)
CS84	0893186R	CER. CAP.(33000PF 16V) (DP17)	CSL1	0284824F	CAP.-ELECTRO. 2200UF 35V (DP17)
CS85	0893213R	CAP1608CHIP 2200PFKB 50V TAPE (DP17)	CSL2	0284824F	CAP.-ELECTRO. 2200UF 35V (DP17)
CS86	0893222R	CAP 1608CHIP10000PFKB 50V TAPE (DP17)	CSL5	0800363N	CAP.-ELECTRO. 1000UF-M 35V (DP17)
CS87	0893206R	CAP 1608CHIP 680PFKB 50V TAPE (DP17)	CSL6	0893188R	CER. CAP.(47000PF 16V) (DP17)
CS88	0893213R	CAP1608CHIP 2200PFKB 50V TAPE (DP17)	CSL7	0880194R	CAP.-POLYESTER 0.1UF-J 50V (DP17)
CS89	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)	CSL8	0800318R	CAP.-ELECTRO. 47UF-M 25V(DP17)
CS90	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSL9	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)
CS91	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)	CSM1	0284638R	CAP.-ELECTRO. 10UF-SME(BP) 16V (DP17)
CS92	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CSM2	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CS93	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)	CSM3	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CSM4	0800326R	CAP.-ELECTRO. 100UF-M 16V (DP17)	CT45	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CSM5	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)	CT46	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CSM6	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)	CT47	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CSM7	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)	CT48	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CSM8	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)	CT49	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CSM9	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)	CT50	0893211R	CAP 1608CHIP 1500PFKB 50V TAPE (DP17)
CSN1	0893222R	CAP 1608CHIP10000PFKB 50V TAPE (DP17)	CT51	0893211R	CAP 1608CHIP 1500PFKB 50V TAPE (DP17)
CSN2	0893222R	CAP 1608CHIP10000PFKB 50V TAPE (DP17)	CT52	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSN3	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)	CT53	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSN4	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CT54	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CSN5	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)	CT55	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)
CSN6	0893222R	CAP 1608CHIP10000PFKB 50V TAPE (DP17)	CT56	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CSN7	0893222R	CAP 1608CHIP10000PFKB 50V TAPE (DP17)	CT57	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)
CSN8	0800312R	CAP..-ELECTRO. 33UF-M 50V (DP17)	CT59	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSN9	0893117R	CAP 1608CHIP 22PFJCH 50V TAPE (DP17)	CT61	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSP2	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE (DP17)	CT63	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSP3	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE (DP17)	CT65	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSP5	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE (DP17)	CT67	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSP6	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE (DP17)	CT69	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSP7	0893135R	CAP 1608CHIP 470PFJCH 50V TAPE (DP17)	CT71	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSP8	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CT73	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSP9	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CT75	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CSR2	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)	CT77	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CT02	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CT79	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CT04	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)	CT81	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CT05	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CT83	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CT07	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CT84	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CT08	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CT85	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CT09	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CT86	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)
CT12	0893116R	CAP 1608CHIP 18PFJCH 50V TAPE (DP17)	CT87	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CT13	0893116R	CAP 1608CHIP 18PFJCH 50V TAPE (DP17)	CT88	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)
CT14	0893124R	CAP 1608CHIP 68PFJCH 50V TAPE (DP17)	CT89	0800303R	CAP.-ELECTRO. 22UF-M 50V (DP17)
CT15	0893188R	CER. CAP.(47000PF 16V) (DP17)	CT90	0800303R	CAP.-ELECTRO. 22UF-M 50V (DP17)
CT16	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CT91	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CT17	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)	CT92	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)
CT18	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX01	AA01111R	CER. CAP.(1.0UF 6.3V)
CT19	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX02	AA01101R	CER. CAP.(1UF 10V-F)
CT20	0893207R	CAP 1608CHIP 820PFKB 50V TAPE (DP17)	CX03	AA01101R	CER. CAP.(1UF 10V-F)
CT21	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX04	AA01111R	CER. CAP.(1.0UF 6.3V)
CT22	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX05	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CT23	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX06	AA01111R	CER. CAP.(1.0UF 6.3V)
CT24	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX07	AA01101R	CER. CAP.(1UF 10V-F)
CT30	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX08	AA01101R	CER. CAP.(1UF 10V-F)
CT31	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX09	AA01111R	CER. CAP.(1.0UF 6.3V)
CT32	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX10	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CT33	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX11	AA01101R	CER. CAP.(1UF 10V-F)
CT34	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX12	AA01101R	CER. CAP.(1UF 10V-F)
CT35	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX15	AA01101R	CER. CAP.(1UF 10V-F)
CT36	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)	CX16	AA01101R	CER. CAP.(1UF 10V-F)
CT37	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX17	0800352R	CAP.-ELECTRO.470UF 10V
CT38	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX18	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CT39	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)	CX19	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CT40	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V (DP17)	CX20	0800352R	CAP.-ELECTRO.470UF 10V
CT41	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX21	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE
CT42	0800318R	CAP.-ELECTRO. 47UF-M 25V (DP17)	CX22	AA01111R	CER. CAP.(1.0UF 6.3V)
CT43	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE (DP17)	CX23	AA01101R	CER. CAP.(1UF 10V-F)
CT44	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE (DP17)	CX24	AA01111R	CER. CAP.(1.0UF 6.3V)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
CX25	AA01101R	CER. CAP.(1UF 10V-F)	CX81	0800352R	CAP.-ELECTRO.470UF 10V
CX26	AA01111R	CER. CAP.(1.0UF 6.3V)	CX82	AA01121R	CER. CAP.(0.47UF 10V)
CX27	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	CX83	AA01121R	CER. CAP.(0.47UF 10V)
CX28	AA01111R	CER. CAP.(1.0UF 6.3V)	CX84	AA01121R	CER. CAP.(0.47UF 10V)
CX29	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V	CX85	AA01121R	CER. CAP.(0.47UF 10V)
CX30	AA01101R	CER. CAP.(1UF 10V-F)	CX86	AA01121R	CER. CAP.(0.47UF 10V)
CX31	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CX87	AA01121R	CER. CAP.(0.47UF 10V)
CX32	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CX88	AA01121R	CER. CAP.(0.47UF 10V)
CX33	0800326R	CAP.-ELECTRO. 100UF-M 16V	CX89	AA01121R	CER. CAP.(0.47UF 10V)
CX34	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CX90	AA01121R	CER. CAP.(0.47UF 10V)
CX35	AA01111R	CER. CAP.(1.0UF 6.3V)	CX91	AA01121R	CER. CAP.(0.47UF 10V)
CX36	AA01101R	CER. CAP.(1UF 10V-F)	CX92	AA01121R	CER. CAP.(0.47UF 10V)
CX37	AA01101R	CER. CAP.(1UF 10V-F)	CX93	AA01121R	CER. CAP.(0.47UF 10V)
CX38	AA01111R	CER. CAP.(1.0UF 6.3V)	CX94	AA01121R	CER. CAP.(0.47UF 10V)
CX39	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE	CX95	AA01121R	CER. CAP.(0.47UF 10V)
CX40	0800326R	CAP.-ELECTRO. 100UF-M 16V	CX96	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX41	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CX97	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE
CX42	0893239R	CAP 1608CHIP 10000PFZF 50V TAPE	CX98	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CX43	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE	CX99	AA01111R	CER. CAP.(1.0UF 6.3V)
CX44	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE	CY01	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CX45	0800326R	CAP.-ELECTRO. 100UF-M 16V	CY02	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX46	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CY03	0800352R	CAP.-ELECTRO.470UF 10V
CX47	0800326R	CAP.-ELECTRO. 100UF-M 16V	CY04	0800326R	CAP.-ELECTRO. 100UF-M 16V
CX48	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CY05	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX49	0893114R	CAP 1608CHIP 12PFJCH 50V TAPE	CY06	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX50	0800273R	CAP.-ELECTRO 0.22UF-M 50V	CY07	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX51	0893213R	CAP1608CHIP 2200PFKB 50V TAPE	CY08	0800326R	CAP.-ELECTRO. 100UF-M 16V
CX52	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CY09	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX53	0800282R	CAP.-ELECTORO. 2.2UF-M(SMG) 50V	CY10	0800326R	CAP.-ELECTRO. 100UF-M 16V
CX54	0893217R	CAP 1608CHIP 4700PFKB 50V TAPE	CY11	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX55	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CY12	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX56	0800326R	CAP.-ELECTRO. 100UF-M 16V	CY13	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX57	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CY14	AA01111R	CER. CAP.(1.0UF 6.3V)
CX58	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CY17	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CX59	0800326R	CAP.-ELECTRO. 100UF-M 16V	CY18	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX60	AA01121R	CER. CAP.(0.47UF 10V)	CY20	0893132R	CAP 1608CHIP 270PFJCH 50V TAPE
CX61	AA01121R	CER. CAP.(0.47UF 10V)	CY21	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CX62	AA01121R	CER. CAP.(0.47UF 10V)	CY22	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CX63	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CY23	AA01101R	CER. CAP.(1UF 10V-F)
CX64	AA01121R	CER. CAP.(0.47UF 10V)	CY24	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CX65	AA01121R	CER. CAP.(0.47UF 10V)	CY25	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CX66	AA01121R	CER. CAP.(0.47UF 10V)	CY26	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE
CX67	AA01121R	CER. CAP.(0.47UF 10V)	CY27	AA01111R	CER. CAP.(1.0UF 6.3V)
CX68	AA01121R	CER. CAP.(0.47UF 10V)	CY35	0893232R	CAP 1608CHIP 100000PFZF25V TAPE
CX69	AA01121R	CER. CAP.(0.47UF 10V)	CY36	0800279R	CAP.-ELECTORO. 1.0UF-M(SMG) 50V
CX70	AA01121R	CER. CAP.(0.47UF 10V)	CY37	AA01121R	CER. CAP.(0.47UF 10V)
CX71	AA01121R	CER. CAP.(0.47UF 10V)	CY38	AA01121R	CER. CAP.(0.47UF 10V)
CX72	AA01121R	CER. CAP.(0.47UF 10V)	CY39	AA01121R	CER. CAP.(0.47UF 10V)
CX73	AA01121R	CER. CAP.(0.47UF 10V)	CY40	AA01121R	CER. CAP.(0.47UF 10V)
CX74	AA01121R	CER. CAP.(0.47UF 10V)	CY41	AA01121R	CER. CAP.(0.47UF 10V)
CX75	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CY42	AA01121R	CER. CAP.(0.47UF 10V)
CX76	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE	CY43	AA01121R	CER. CAP.(0.47UF 10V)
CX77	0893222R	CAP 1608CHIP10000PFKB 50V TAPE	CY44	AA01121R	CER. CAP.(0.47UF 10V)
CX78	AA01111R	CER. CAP.(1.0UF 6.3V)	CY45	AA01121R	CER. CAP.(0.47UF 10V)
CX79	0893179R	CAP.CHIP-CER. 100000PF 16V TAPE	CY46	AA01121R	CER. CAP.(0.47UF 10V)
CX80	0893232R	CAP 1608CHIP 100000PFZF25V TAPE	CY47	AA01121R	CER. CAP.(0.47UF 10V)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
CY48	AA01121R	CER. CAP.(0.47UF 10V)
CY49	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
CY50	0800294R	CAP.-ELECTRO. 10UF-M(SMG) 50V
		DIODES
D001	2331849M	ZENER HZ12C3 (TA) SI 500MW
D002	2331849M	ZENER HZ12C3 (TA) SI 500MW
D003	2331849M	ZENER HZ12C3 (TA) SI 500MW
D004	2331849M	ZENER HZ12C3 (TA) SI 500MW
D005	2331849M	ZENER HZ12C3 (TA) SI 500MW
D006	CH02021M	DIODE 1SS133 T-72 (DP17)
D007	CH02021M	DIODE 1SS133 T-72
D008	CH02021M	DIODE 1SS133 T-72
D010	2331827M	ZENER DIODE HZ-9 TAPE (C1) SI 500MW 9.3V
D011	2331827M	ZENER DIODE HZ-9 TAPE (C1) SI 500MW 9.3V
D012	CH02021M	DIODE 1SS133 T-72
D013	CH02021M	DIODE 1SS133 T-72
D015	2331809M	ZENER DIODE HZ-6 TAPE (C3) SI 500MW
D016	CH02021M	DIODE 1SS133 T-72
D017	CH02021M	DIODE 1SS133 T-72
D018	CH02021M	DIODE 1SS133 T-72
D019	CH02021M	DIODE 1SS133 T-72
D020	CH02021M	DIODE 1SS133 T-72
D021	CH02021M	DIODE 1SS133 T-72
D022	CH02021M	DIODE 1SS133 T-72
D023	CH02021M	DIODE 1SS133 T-72
D027	CH02021M	DIODE 1SS133 T-72
D028	CH02021M	DIODE 1SS133 T-72
D029	2331849M	ZENER HZ12C3 (TA) SI 500MW
D030	2331779M	ZENER DIODE HZ3C3
D040	2331849M	ZENER HZ12C3 (TA) SI 500MW
D501	2339971M	ZENER HZS33-1 TA
D502	2339971M	ZENER HZS33-1 TA
D503	2331849M	ZENER HZ12C3 (TA) SI 500MW
D551	CH02021M	DIODE 1SS133 T-72
D552	CH02021M	DIODE 1SS133 T-72
D601	2331154M	ZENER HZ-12 (A1-3 B1-3.TA) SI 200MA 14.3V
D603	CH02001M	DIODE 1SR139-400
D604	CH02001M	DIODE 1SR139-400
D605	CH02011M	DIODE 1SR153-400
D606	2334305M	ZENER RD30E (B4 T2/TP/TA) SI 5MA 30.51V
D607	CH02001M	DIODE 1SR139-400
D608	CH02021M	DIODE 1SS133 T-72
D701	CH02001M	DIODE 1SR139-400
D702	2339859M	ZENER HZS7C3 TA
D703	CH02021M	DIODE 1SS133 T-72
⚠ D706	2339882M	ZENER DIODE HZS-12(A2) TAPE
D707	CH02021M	DIODE 1SS133 T-72
D708	CH02161	DIODE FMQ-G2FLS (1500V)
D709	CH02021M	DIODE 1SS133 T-72
D710	2339855M	ZENER DIODE HZS-7 (B2) TAPE SI 7V
D711	CH00041M	DIODE ES1FV1 (1500V) (DP14G)
D712	CH00041M	DIODE ES1FV1 (1500V)
D712	CH00901M	DIODE RGP02-15E 1500V 20A (DP17)
D713	2339802M	ZENER DIODE HZS2B2 TAPE
D714	2339849M	ZENER HZS6C3 TA
D801	2331849M	ZENER HZ12C3 (TA) SI 500MW
D802	CH02021M	DIODE 1SS133 T-72
D803	CH02021M	DIODE 1SS133 T-72
D804	CH02021M	DIODE 1SS133 T-72
D806	CH02021M	DIODE 1SS133 T-72
D808	CH02021M	DIODE 1SS133 T-72
D813	CH02001M	DIODE 1SR139-400
D814	CH02001M	DIODE 1SR139-400
D815	CH02001M	DIODE 1SR139-400
D816	CH02001M	DIODE 1SR139-400
D851	2331849M	ZENER HZ12C3 (TA) SI 500MW
D852	CH02021M	DIODE 1SS133 T-72
D853	CH02021M	DIODE 1SS133 T-72
D854	CH02021M	DIODE 1SS133 T-72
D856	CH02021M	DIODE 1SS133 T-72
D858	CH02021M	DIODE 1SS133 T-72
D863	CH02001M	DIODE 1SR139-400
D864	CH02001M	DIODE 1SR139-400
D865	CH02001M	DIODE 1SR139-400
D866	CH02001M	DIODE 1SR139-400
D8A1	2331849M	ZENER HZ12C3 (TA) SI 500MW
D8A2	CH02021M	DIODE 1SS133 T-72
D8A3	CH02021M	DIODE 1SS133 T-72
D8A4	CH02021M	DIODE 1SS133 T-72
D8A5	CH02021M	DIODE 1SS133 T-72
D8A6	CH02021M	DIODE 1SS133 T-72
D8C3	CH02001M	DIODE 1SR139-400
D8C4	CH02001M	DIODE 1SR139-400
D8C5	CH02001M	DIODE 1SR139-400
D8C6	CH02001M	DIODE 1SR139-400
D8C7	2331849M	ZENER HZ12C3 (TA) SI 500MW
⚠ D901	2342061	DIODE D3SB(A)60.
D902	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
D903	CH02011M	DIODE 1SR153-400
D904	CH02011M	DIODE 1SR153-400
D906	CH02001M	DIODE 1SR139-400
D907	CH02001M	DIODE 1SR139-400
D910	2337951G	DIODE RU4Z
D911	2337951G	DIODE RU4Z (DP17)
D912	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
D913	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1) (DP17)
D914	CH02001M	DIODE 1SR139-400
D917	CH01091M	DIODE EL1 (350V) (DP17)
D918	CH02001M	DIODE 1SR139-400 (DP17)
D919	CH01091M	DIODE EL1 (350V)
D920	2334832M	DIODE EK04V1
D921	2338532M	DIODE EG01A (V1) (DP17)
D922	CH02001M	DIODE 1SR139-400 (DP17)
D923	CH02001M	DIODE 1SR139-400
D924	2339828M	ZENER HZS-4C TAPE
D925	CH02001M	DIODE 1SR139-400
D926	CH02021M	DIODE 1SS133 T-72
D927	CH02021M	DIODE 1SS133 T-72
D929	2339816M	ZENER HZS3B3 TAPE (DP17)
D930	CH02021M	DIODE 1SS133 T-72 (DP17)
D931	CH02021M	DIODE 1SS133 T-72 (DP17)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
D933	2339882M	ZENER DIODE HZS-12(A2) TAPE
D934	CH02021M	DIODE 1SS133 T-72
D935	2339857M	ZENER HZS7C1 SI
D936	CH02021M	DIODE 1SS133 T-72
D938	CH02021M	DIODE 1SS133 T-72
D939	2339817M	ZENER HZS3C1 TA
D940	CH02021M	DIODE 1SS133 T-72
D941	2339821M	ZENER HZS4A1 TA
D942	CH02021M	DIODE 1SS133 T-72
D944	2331844M	ZENER HZ12-B1
D947	2339867M	ZENER HZS-9-C1 TAPE (SI.200MA)
DA01	CH02021M	DIODE 1SS133 T-72 (DP14G)
DA02	CH02021M	DIODE 1SS133 T-72 (DP14G)
DA03	2331771M	ZENER HZ-3A1 TAPE (DP14G)
DA04	2331771M	ZENER HZ-3A1 TAPE (DP14G)
DC01	CH02021M	DIODE 1SS133 T-72
DC02	CH02021M	DIODE 1SS133 T-72
DC03	2339801M	ZENER HZS-2 TAPE (B1) SI 400MW 2.0V
DC04	CH02021M	DIODE 1SS133 T-72
DC05	CH02021M	DIODE 1SS133 T-72
DC06	2331849M	ZENER HZ12C3 (TA) SI 500MW
DC07	2331849M	ZENER HZ12C3 (TA) SI 500MW
DC08	2331849M	ZENER HZ12C3 (TA) SI 500MW
DC09	CH02001M	DIODE 1SR139-400
DC10	CH02001M	DIODE 1SR139-400
DC11	2331849M	ZENER HZ12C3 (TA) SI 500MW
DC12	2331849M	ZENER HZ12C3 (TA) SI 500MW
DE01	2331849M	ZENER HZ12C3 (TA) SI 500MW
DE02	2335042M	ZENER HZ-22 (2L TP) SI 200MA 400MW
DE03	CH02001M	DIODE 1SR139-400
DE04	CH02001M	DIODE 1SR139-400
DE05	CH02001M	DIODE 1SR139-400
DE06	CH02001M	DIODE 1SR139-400
DE17	CH02021M	DIODE 1SS133 T-72
DE18	CH02021M	DIODE 1SS133 T-72
DF01	CH02021M	DIODE 1SS133 T-72
DF02	CH02021M	DIODE 1SS133 T-72
DF03	CH02021M	DIODE 1SS133 T-72
DF04	2338531M	DIODE EG-01C (V) SI 0.5A
DH01	2339802M	ZENER DIODE HZS2B2 TAPE
DH02	2339839M	ZENER HZS5C3 TAPE
DH04	2339839M	ZENER HZS5C3 TAPE
DH05	CH02021M	DIODE 1SS133 T-72
DH06	CH02021M	DIODE 1SS133 T-72
DH08	2334243M	ZENER RD16E (B2 T2/TP/TA) SI 10MA 16.51V
DH09	CH00041M	DIODE ES1FV1 (1500V)
DH10	CH02001M	DIODE 1SR139-400
DH11	CH02001M	DIODE 1SR139-400
⚠ DH12	CH02021M	DIODE 1SS133 T-72
DH13	CH00031M	DIODE AU02V1(280V)
DH14	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
⚠ DH15	2335042M	ZENER HZ-22 (2L TP) SI 200MA 400MW
DH16	2334305M	ZENER RD30E (B4 T2/TP/TA) SI 5MA 30.51V
DH17	CH00031M	DIODE AU02V1(280V)
DH18	CH02021M	DIODE 1SS133 T-72
DJ01	CH02021M	DIODE 1SS133 T-72
DJ02	CH02021M	DIODE 1SS133 T-72
DJ03	CH02021M	DIODE 1SS133 T-72
DJ04	CH02021M	DIODE 1SS133 T-72
DJ05	CH02021M	DIODE 1SS133 T-72
DJ06	CH02021M	DIODE 1SS133 T-72
DJ07	CH02021M	DIODE 1SS133 T-72
DJ08	CH02021M	DIODE 1SS133 T-72
DJ09	CH02021M	DIODE 1SS133 T-72
DJ10	CH02021M	DIODE 1SS133 T-72
DJ11	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ12	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ13	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ14	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ15	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ16	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ17	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ18	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ19	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ20	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ21	CH02021M	DIODE 1SS133 T-72 (DP17)
DJ22	CH02021M	DIODE 1SS133 T-72
DJ23	2331849M	ZENER HZ12C3 (TA) SI 500MW (DP14G)
DJ24	2331849M	ZENER HZ12C3 (TA) SI 500MW (DP14G)
DK01	CH02301M	DIODE D2S4M (2A-40V)
DK04	CH02011M	DIODE 1SR153-400
DK05	CH02011M	DIODE 1SR153-400
DK16	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK17	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK18	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK19	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK20	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK21	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK22	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK23	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK24	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK25	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK26	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK27	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DK30	2331815M	ZENER HZ7-B2
DK31	2331815M	ZENER HZ7-B2
DK32	2331815M	ZENER HZ7-B2 (DP17)
DK33	2331815M	ZENER HZ7-B2 (DP17)
DK34	2331815M	ZENER HZ7-B2 (DP17)
DK35	2331815M	ZENER HZ7-B2 (DP17)
DK36	2331815M	ZENER HZ7-B2
DK37	2331815M	ZENER HZ7-B2
DK39	CH02021M	DIODE 1SS133 T-72
DK41	2331815M	ZENER HZ7-B2
DK42	2331815M	ZENER HZ7-B2
DL01	2331815M	ZENER HZ7-B2
DL02	2331815M	ZENER HZ7-B2
DL03	2331815M	ZENER HZ7-B2 (DP17)
DL04	2331815M	ZENER HZ7-B2 (DP17)
DL05	2331815M	ZENER HZ7-B2 (DP17)
DL06	2331815M	ZENER HZ7-B2 (DP17)
DL07	2331815M	ZENER HZ7-B2

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SYMBOL NO.	PART NO.	PART DESCRIPTION
DL08	2331815M	ZENER HZ7-B2
DL10	CH02021M	DIODE 1SS133 T-72
DL11	CH02021M	DIODE 1SS133 T-72
DL12	CH02021M	DIODE 1SS133 T-72 (DP17)
DL13	CH02021M	DIODE 1SS133 T-72 (DP17)
DL14	CH02021M	DIODE 1SS133 T-72 (DP17)
DL15	CH02021M	DIODE 1SS133 T-72 (DP17)
DL16	CH02021M	DIODE 1SS133 T-72
DL17	CH02021M	DIODE 1SS133 T-72
DL20	2331815M	ZENER HZ7-B2
DL21	2331815M	ZENER HZ7-B2
DL22	2331815M	ZENER HZ7-B2 (DP17)
DL23	2331815M	ZENER HZ7-B2 (DP17)
DL24	2331815M	ZENER HZ7-B2 (DP17)
DL25	2331815M	ZENER HZ7-B2 (DP17)
DL26	2331815M	ZENER HZ7-B2
DL27	2331815M	ZENER HZ7-B2
DL28	2331824M	ZENER HZ9B1 TA
DL30	2331824M	ZENER HZ9B1 TA
DL31	2331824M	ZENER HZ9B1 TA
DL32	2331824M	ZENER HZ9B1 TA (DP17)
DL33	2331824M	ZENER HZ9B1 TA (DP17)
DL34	2331824M	ZENER HZ9B1 TA (DP17)
DL35	2331824M	ZENER HZ9B1 TA (DP17)
DL36	2331824M	ZENER HZ9B1 TA
DL37	2331824M	ZENER HZ9B1 TA
DM01	CH02021M	DIODE 1SS133 T-72
DM02	CH02021M	DIODE 1SS133 T-72
DM03	CH00231	LED SLH-56VC3F
DM04	2331849M	ZENER HZ12C3 (TA) SI 500MW
DM05	2331849M	ZENER HZ12C3 (TA) SI 500MW
DM07	2331849M	ZENER HZ12C3 (TA) SI 500MW
DM08	2331849M	ZENER HZ12C3 (TA) SI 500MW
DM09	2331849M	ZENER HZ12C3 (TA) SI 500MW
DM10	2331849M	ZENER HZ12C3 (TA) SI 500MW
DM11	2331849M	ZENER HZ12C3 (TA) SI 500MW
DM12	2331815M	ZENER HZ7-B2
DN01	CH02021M	DIODE 1SS133 T-72
DN02	2339825M	ZENER DIODE HZS-4 TAPE (B2) SI 400MW 3.9V
DN03	CH02021M	DIODE 1SS133 T-72
DN06	CH02021M	DIODE 1SS133 T-72
DN07	CH02021M	DIODE 1SS133 T-72
DN08	CH02021M	DIODE 1SS133 T-72
DN09	CH02021M	DIODE 1SS133 T-72
DN10	CH02021M	DIODE 1SS133 T-72
DN11	CH02021M	DIODE 1SS133 T-72
DN12	2331849M	ZENER HZ12C3 (TA) SI 500MW
DN13	CH02021M	DIODE 1SS133 T-72
⚠ DP01	2342061	DIODE D3SB(A)60.
DP02	CH02011M	DIODE 1SR153-400
DP03	2334324M	ZENER DIODE RD36E TAPE (B3) SI 500MW 36V
DP04A	2331844M	ZENER HZ12-B1
DP05	CH02011M	DIODE 1SR153-400
DP06	CH00183R	LIGHT EMITTING DIODE (SLZ-981C-06-T1)
DP07	2337951G	DIODE RU4Z
DP08	2337951G	DIODE RU4Z
DP09	2338532M	DIODE EG01A (V1)
DP10	2334304M	ZENER RD30E (B3 T2/TP/TA) SI 5MA 30.51V
DP11	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
DP12	2337951G	DIODE RU4Z
DP13	2337951G	DIODE RU4Z
DP14	2359312	DIODE RU3C (1000V)
DP15	CH01061F	DIODE RU4AM(600V)
DP16	2339881M	ZENER HZS12A1 TA
DP17	2339857M	ZENER HZS7C1 SI
DP18	2339961M	ZENER HZS30-1 TA
DP19	CH02021M	DIODE 1SS133 T-72
DP20	CH02021M	DIODE 1SS133 T-72
DP21	2339827M	ZENER HZS4C1 TA
DP22	CH02021M	DIODE 1SS133 T-72
DP23	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
DP24	CH02001M	DIODE 1SR139-400
DP25	CH02001M	DIODE 1SR139-400
DP26	CH02021M	DIODE 1SS133 T-72
DP27	CH02021M	DIODE 1SS133 T-72
DP28	CH02021M	DIODE 1SS133 T-72
DP29	2339875M	ZENER HZS11B2 TA
DP30	CH02021M	DIODE 1SS133 T-72
DP31	CH02021M	DIODE 1SS133 T-72
DP34	CH02021M	DIODE 1SS133 T-72
DP35	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
DP37	CH00182R	LIGHT EMITTING DIODE (SLZ-381C-06-T1)
DS01	CH02021M	DIODE 1SS133 T-72 (DP17)
DS02	CH02021M	DIODE 1SS133 T-72 (DP17)
DS07	CH02021M	DIODE 1SS133 T-72 (DP17)
DS08	CH02021M	DIODE 1SS133 T-72 (DP17)
DS09	CH02021M	DIODE 1SS133 T-72 (DP17)
DS10	CH02021M	DIODE 1SS133 T-72 (DP17)
DS11	CH02021M	DIODE 1SS133 T-72 (DP17)
DS12	CH02021M	DIODE 1SS133 T-72 (DP17)
DS13	CH02021M	DIODE 1SS133 T-72 (DP17)
DS14	CH02021M	DIODE 1SS133 T-72 (DP17)
DS15	CH02021M	DIODE 1SS133 T-72 (DP17)
DS16	CH02021M	DIODE 1SS133 T-72 (DP17)
DS17	CH02021M	DIODE 1SS133 T-72 (DP17)
DS18	2331771M	ZENER HZ-3A1 TAPE (DP17)
DS19	CH02021M	DIODE 1SS133 T-72 (DP17)
DS20	2331771M	ZENER HZ-3A1 TAPE (DP17)
DS21	CH02021M	DIODE 1SS133 T-72 (DP17)
DS22	CH02021M	DIODE 1SS133 T-72 (DP17)
DS23	2331771M	ZENER HZ-3A1 TAPE (DP17)
DS24	CH02021M	DIODE 1SS133 T-72 (DP17)
DS25	CC00003R	DIODE.CHIP 1SS355 (DP17)
DS26	CH02021M	DIODE 1SS133 T-72 (DP17)
DT02	CC00003R	DIODE.CHIP 1SS355 (DP17)
DT03	CC00003R	DIODE.CHIP 1SS355 (DP17)
DT04	CC00003R	DIODE.CHIP 1SS355 (DP17)
DX11	2331771M	ZENER HZ-3A1 TAPE
DX12	2331771M	ZENER HZ-3A1 TAPE
DX13	CH02021M	DIODE 1SS133 T-72

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SYMBOL NO.	PART NO.	PART DESCRIPTION
		FUSES
⚠ F901	2722359	FUSE AC06A
⚠ F902	2722354	FUSE 2A (DP14G)
⚠ F902	2722358	FUSE AC05A (DP17)
⚠ FP01	2722358	FUSE AC05A
		SPARK GAPS
⚠ G801	CJ00071R	SPARK GAP 1.5KV
⚠ G802	CJ00071R	SPARK GAP 1.5KV
⚠ G851	CJ00071R	SPARK GAP 1.5KV
⚠ G852	CJ00071R	SPARK GAP 1.5KV
⚠ G8A1	CJ00071R	SPARK GAP 1.5KV
⚠ G8A2	CJ00071R	SPARK GAP 1.5KV
⚠ GF01	CJ00072R	SPARK GAP 2.5KV
		ICs
I001	CP07166U	IC MN102H51KHZ (DP14G)
I001	CP07169U	IC MN102H51KHC (DP17)
I002	CP06941R	IC PST994I
I003	CK35894R	IC CAT24WC32J1
I004	CK09541R	IC HD74HCT245T
I005	CK31992R	IC BU4053BCF
I006	CK31071R	IC CXA1875AM
I007	CK31071R	IC CXA1875AM
I008	CP04232	ANALOG MONOLITHIC IC BA033T
I301	CK09013U	IC UPD64082GF-3BA
I302	CK06097R	ANALOG MONOLITHIC IC(PST9127NR)
I303	CK35321R	IC MSM514265E-60JS
I501	CK07923U	IC TA1270BF
I502	CK35501R	MONO IC(NJM2284M-TE1)
I503	CK01172R	HD74HC221FPEL
I601	CP06891	IC TDA8174A
I701	2362606	IC NJM4558D
⚠ I901	CP07821U	MONO IC STR-G6632 (DP14G)
⚠ I901	CZ00864	IC STR-F6626(LF1352) (DP17)
⚠ I902	CP07851	MONO IC TLP421
⚠ I903	CP07851	MONO IC TLP421
⚠ I904	CP07851	MONO IC TLP421
I905	CP07612	ANALOG MONO IC (NJM7806FA) (DP17)
I906	CP05163F	IC SI-3090F
IA01	CK35262R	IC NJW1132AM-TE1 (DP14G)
IA02	CK35451R	IC NJM2198M (DP14G)
IA07	CK35291R	IC NJM2043M (DP14G)
IC01	CP07281U	IC TA1316AN
IC02	CP07611	ANALOG MONOLITHIC IC (NJM7805FA
IC03	CP04232	ANALOG MONOLITHIC IC BA033T
IC04	CP06581U	IC LF25CV
IH01	CP07091	IC M62501P
IJ01	2004751	IC TA8200AH
IJ02	2004751	IC TA8200AH (DP17)
IJ03	CP02601	AN5285K (DP17)
IK01	CP07611	ANALOG MONOLITHIC IC (NJM7805FA
IK02	CP01631R	ICL-PST9142
IK04	CZ00431	HYBRID IC (STK392-110)
IK05	CZ00431	HYBRID IC (STK392-110)

SYMBOL NO.	PART NO.	PART DESCRIPTION
⚠ IP01	CZ00865	STR-F6629B(LF1351)
⚠ IP02	CP07851	MONO IC TLP421
⚠ IP03	2381343	IC (SE115N)
IP04	2004665F	IC PQ09RF2B
IP05	2004666F	IC PQ05RF2B
IP06	CP05141	ANALOG MONOLITHIC IC (PQ6RD083)
IS01	CK31071R	IC CXA1875AM (DP17)
IS03	CK35291R	IC NJM2043M (DP17)
IS04	CK35291R	IC NJM2043M (DP17)
IS05	CK35291R	IC NJM2043M (DP17)
IS06	CK35351R	IC M62446FP (DP17)
IS07	CK35291R	IC NJM2043M (DP17)
IS08	CK35291R	IC NJM2043M (DP17)
IS09	CK35291R	IC NJM2043M (DP17)
IS10	CK35361R	IC M62449FP (DP17)
IS11	CK35291R	IC NJM2043M (DP17)
IS12	CK35291R	IC NJM2043M (DP17)
IS13	CP04231	ANALOG MONOLITHIC IC BA05T/FP (DP17)
IS15	2004751	IC TA8200AH (DP17)
IS16	2015762R	IC HD74HC151FPEL (DP17)
IS17	CK34031R	IC TC74HCU04AF (DP17)
IT01	CK09541R	IC HD74HCT245T (DP17)
IT02	CK33841U	IC ZR38650 (DP17)
IT03	CK33852R	IC AT27C040-12RC-DP1X (DP17)
IT04	CK34041R	IC TC7SET04F (DP17)
IT05	CK33861U	IC IS61C3216-15T (DP17)
IT06	CK33861U	IC IS61C3216-15T (DP17)
IT07	CK33872U	IC AK4527BVQ (DP17)
IT10	CK35291R	IC NJM2043M (DP17)
IT12	CK35291R	IC NJM2043M (DP17)
IT13	CZ00671R	ANALOG MONOLITHIC IC (BA033FP-E2) (DP17)
IT14	CZ00672R	ANALOG MONOLITHIC IC (BA05FP-E2) (DP17)
IX01	CK30941U	IC CXA2069Q
IX02	CW00022	COMB FILTER (337KNT)
IX03	CK07923U	IC TA1270BF
IX04	CK35371U	IC VIDEO/SYNCSELECTOR CXA2151Q
IX05	CK35371U	IC VIDEO/SYNCSELECTOR CXA2151Q
IX06	CK31992R	IC BU4053BCF
IX07	CK31992R	IC BU4053BCF
IX08	2015452R	IC HD74HC04FPEL
		COILS
E002	2169513	COIL LX-ZCAT2032
E002	2169513	COIL LX-ZCAT2032
E002	2169513	COIL LX-ZCAT2032
E10B	GX00551	MAG VM COIL36.5 6T 6.8UH
E10B	GX00371	MAG DBV4253M VM COIL (43UWX)
E10B	GX00513	MAG VM COIL29.5 6T 5.9UH (53/61UWX)
E10G	GX00551	MAG VM COIL36.5 6T 6.8UH
E10G	GX00371	MAG DBV4253M VM COIL (43UWX)
E10G	GX00513	MAG VM COIL29.5 6T 5.9UH (53/61UWX)
E10R	GX00551	MAG VM COIL36.5 6T 6.8UH
E10R	GX00371	MAG DBV4253M VM COIL (43UWX)
E10R	GX00513	MAG VM COIL29.5 6T 5.9UH (53/61UWX)
L001	BH00697R	FILTER COIL 100UH
L002	BH00697R	FILTER COIL 100UH

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
L003	2123781R	FILTER COIL 100UH(EL0607)	L906	BH01342M	COIL FERRITE BEADS 2.3UH
L004	BH00697R	FILTER COIL 100UH	L907	BH01342M	COIL FERRITE BEADS 2.3UH
L005	BH00697R	FILTER COIL 100UH	L908	BH01341M	COIL FERRITE BEADS 0.8UH
L006	BH00697R	FILTER COIL 100UH	L909	BH01341M	COIL FERRITE BEADS 0.8UH
L007	BH00697R	FILTER COIL 100UH	L910	BH01342M	COIL FERRITE BEADS 2.3UH
L008	BH00697R	FILTER COIL 100UH	L911	BH01342M	COIL FERRITE BEADS 2.3UH (DP17)
L009	BH00697R	FILTER COIL 100UH	L912	2125797N	FILT.COIL(LHL08 10UH)
L010	BJ00402	30MHZ BAND PASS LC FILTER 87F2	L913	2125797N	FILT.COIL(LHL08 10UH) (DP17)
L012	2123415M	LAL AXIAL COIL 2.2UH-K	L914	2125797N	FILT.COIL(LHL08 10UH)
L013	2123415M	LAL AXIAL COIL 2.2UH-K	L915	2125797N	FILT.COIL(LHL08 10UH) (DP14G)
L014	2123415M	LAL AXIAL COIL 2.2UH-K	L916	2125806N	FILT.COIL(LHL08 47UH) (DP17)
L301	BH00697R	FILTER COIL 100UH	L917	2125806N	FILT.COIL(LHL08 47UH) (DP17)
L302	BH00697R	FILTER COIL 100UH	L918	2125808N	FILT.COIL(LHL08 68UH)
L303	BH00697R	FILTER COIL 100UH	LA01	BH00697R	FILTER COIL 100UH (DP14G)
L304	BH00697R	FILTER COIL 100UH	LA02	BH00697R	FILTER COIL 100UH (DP14G)
L305	BH00693R	COIL 47UH	LA13	BH00697R	FILTER COIL 100UH (DP14G)
L307	BH00697R	FILTER COIL 100UH	LC01	BH00671R	COIL 1.0UH
L308	BH00697R	FILTER COIL 100UH	LC02	BH00697R	FILTER COIL 100UH
L309	BH00679R	COIL 4.7UH	LC03	BH00697R	FILTER COIL 100UH
L310	BH00691R	COIL 33UH	LC04	BH00697R	FILTER COIL 100UH
L311	BH00691R	COIL 33UH	LC05	BH00697R	FILTER COIL 100UH
L501	2123781R	FILTER COIL 100UH(EL0607)	LC06	BH00697R	FILTER COIL 100UH
L502	2123781R	FILTER COIL 100UH(EL0607)	LC07	BH00697R	FILTER COIL 100UH
L503	2123781R	FILTER COIL 100UH(EL0607)	LC10	BH00697R	FILTER COIL 100UH
L504	2123781R	FILTER COIL 100UH(EL0607)	LE01	2125811F	FILT.COIL(LHL08 100UH)
L505	2123781R	FILTER COIL 100UH(EL0607)	LE02	2125811F	FILT.COIL(LHL08 100UH)
L506	BH01341M	COIL FERRITE BEADS 0.8UH	LE03	BH01341M	COIL FERRITE BEADS 0.8UH
L507	BH01341M	COIL FERRITE BEADS 0.8UH	LH01	2125814N	FILT.COIL(LHL08 180UH)
L508	BH01341M	COIL FERRITE BEADS 0.8UH	LH03	BH01342M	COIL FERRITE BEADS 2.3UH
L551	BH00697R	FILTER COIL 100UH	LH04	BH01341M	COIL FERRITE BEADS 0.8UH
L552	BH00697R	FILTER COIL 100UH	LH05	BH01342M	COIL FERRITE BEADS 2.3UH
L553	BH00697R	FILTER COIL 100UH	LH06	2125824N	FILT.COIL(LHL08 1000UH)
L554	BH00697R	FILTER COIL 100UH	LJ01	BH01341M	COIL FERRITE BEADS 0.8UH
L555	2123107M	LAL02 AXIAL COIL 22UH-K	LJ02	BH01341M	COIL FERRITE BEADS 0.8UH
L601	2125803N	FILT.COIL(LHL08 27UH)	LJ03	BH01341M	COIL FERRITE BEADS 0.8UH (DP17)
L702	BH00229R	COIL 472K-1T7608A	LJ04	BH01341M	COIL FERRITE BEADS 0.8UH (DP17)
L703	BH00228R	COIL 332K-1T7608A	LJ05	BH00697R	FILTER COIL 100UH (DP17)
L704	BZ04612	HORIZONTAL LINEARITY COIL 13UH (DP14G)	LK07	BH01341M	COIL FERRITE BEADS 0.8UH
L704	BZ04614	HORIZONTAL LINEARITY COIL 9UH (DP17)	LK08	BH01341M	COIL FERRITE BEADS 0.8UH
L705	BZ04611	HORIZONTAL LINEARITY COIL 6UH (DP14G)	LK09	BH01342M	COIL FERRITE BEADS 2.3UH
L705	BZ04613	HORIZONTAL LINEARITY COIL 3UH (DP17)	LK10	BH01342M	COIL FERRITE BEADS 2.3UH
L801	BH00684R	COIL 10UH	LK11	BH01342M	COIL FERRITE BEADS 2.3UH
L803	BH00685R	COIL 12UH	LK13	BH01342M	COIL FERRITE BEADS 2.3UH
L805	BH00673R	COIL 1.5UH	LK14	2125808N	FILT.COIL(LHL08 68UH)
L851	BH00684R	COIL 10UH	LL01	2125811F	FILT.COIL(LHL08 100UH)
L853	BH00685R	COIL 12UH	LP01	BH01342M	COIL FERRITE BEADS 2.3UH
L855	BH00673R	COIL 1.5UH	LP02	BH01342M	COIL FERRITE BEADS 2.3UH
L8A1	BH00684R	COIL 10UH	LP03	BH01341M	COIL FERRITE BEADS 0.8UH
L8A3	BH00685R	COIL 12UH	LP04	BH01341M	COIL FERRITE BEADS 0.8UH
L8A5	BH00677R	COIL 3.3UH	LP07	2125797N	FILT.COIL(LHL08 10UH)
L8A6	BH00697R	FILTER COIL 100UH	LP10	2125797N	FILT.COIL(LHL08 10UH)
⚠ L901	BZ02561	LINE FILTER 4.7MH 3.5A (DP17)	LP11	2125811N	FILT.COIL(LHL08 100UH)
⚠ L901	BZ04581	LINE FILTER 4.7MH 3.5A (DP14G)	LP12	2125803N	FILT.COIL(LHL08 27UH)
⚠ L902	BZ02561	LINE FILTER 4.7MH 3.5A (DP17)	LP15	2125806N	FILT.COIL(LHL08 47UH)
⚠ L902	BZ04591	LINE FILTER 1.5MH 3.5A (DP14G)	LP16	2125803N	FILT.COIL(LHL08 27UH)
⚠ L905	BZ04591	LINE FILTER 1.5MH 3.5A	LP17	2125806N	FILT.COIL(LHL08 47UH)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
LP18	2125811N	FILT.COIL(LHL08 100UH)
LP19	2125808N	FILT.COIL(LHL08 68UH)
LP20	2125797N	FILT.COIL(LHL08 10UH)
LP22	2125797N	FILT.COIL(LHL08 10UH)
LP25	2125808N	FILT.COIL(LHL08 68UH)
LS01	BH00697R	FILTER COIL 100UH (DP17)
LS03	BH00697R	FILTER COIL 100UH (DP17)
LS04	BH00697R	FILTER COIL 100UH (DP17)
LS05	BH00697R	FILTER COIL 100UH (DP17)
LS06	BH00697R	FILTER COIL 100UH (DP17)
LS07	BH00697R	FILTER COIL 100UH (DP17)
LS08	BH00697R	FILTER COIL 100UH (DP17)
LS15	BH00697R	FILTER COIL 100UH (DP17)
LS16	BH00697R	FILTER COIL 100UH (DP17)
LS17	BH01341M	COIL FERRITE BEADS 0.8UH (DP17)
LS18	BH01341M	COIL FERRITE BEADS 0.8UH (DP17)
LS19	2123415M	LAL AXIAL COIL 2.2UH-K (DP17)
LT01	BH01341M	COIL FERRITE BEADS 0.8UH (DP17)
LT15	BM00288R	FERRAIT CORE-CHIP 470-M (DP17)
LT16	BM00288R	FERRAIT CORE-CHIP 470-M (DP17)
LT17	BM00288R	FERRAIT CORE-CHIP 470-M (DP17)
LT18	BM00288R	FERRAIT CORE-CHIP 470-M (DP17)
LT19	BM00288R	FERRAIT CORE-CHIP 470-M (DP17)
LT20	BM00288R	FERRAIT CORE-CHIP 470-M (DP17)
LT21	BH01341M	COIL FERRITE BEADS 0.8UH (DP17)
LT23	BH01341M	COIL FERRITE BEADS 0.8UH (DP17)
LT24	BH01341M	COIL FERRITE BEADS 0.8UH (DP17)
LX01	BH00697R	FILTER COIL 100UH
LX02	BH00697R	FILTER COIL 100UH
LX03	BH00697R	FILTER COIL 100UH
LX04	BH00697R	FILTER COIL 100UH
LX05	BH00697R	FILTER COIL 100UH
LX06	BH00697R	FILTER COIL 100UH
LX07	BH00697R	FILTER COIL 100UH
LX08	BH00697R	FILTER COIL 100UH
LX09	BH00697R	FILTER COIL 100UH
LX10	BH00697R	FILTER COIL 100UH
		TRANSISTORS
Q001	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q002	CA11271R	TRS 2SA1037AK T146 RS
Q003	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q004	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q005	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q006	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q007	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q008	CA11271R	TRS 2SA1037AK T146 RS
Q009	CA11271R	TRS 2SA1037AK T146 RS
Q010	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q011	CA11271R	TRS 2SA1037AK T146 RS
Q012	CA11271R	TRS 2SA1037AK T146 RS
Q013	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q014	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q015	CA11271R	TRS 2SA1037AK T146 RS
Q016	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q017	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q018	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q019	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q020	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q021	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q022	CA11271R	TRS 2SA1037AK T146 RS
Q023	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q024	CA11271R	TRS 2SA1037AK T146 RS
Q026	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q301	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q302	CA11271R	TRS 2SA1037AK T146 RS
Q303	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q304	CA11271R	TRS 2SA1037AK T146 RS
Q305	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q306	CA11271R	TRS 2SA1037AK T146 RS
Q307	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q308	CA11271R	TRS 2SA1037AK T146 RS
Q309	CA11271R	TRS 2SA1037AK T146 RS
Q310	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q311	CA11271R	TRS 2SA1037AK T146 RS
Q312	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q313	CA11271R	TRS 2SA1037AK T146 RS
Q314	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q315	CA11271R	TRS 2SA1037AK T146 RS
Q316	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q317	CA11271R	TRS 2SA1037AK T146 RS
Q501	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q502	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q503	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q504	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q505	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q506	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q507	2320663M	TRS. 2SC1213A (C)
Q551	CA11271R	TRS 2SA1037AK T146 RS
Q552	CA11271R	TRS 2SA1037AK T146 RS
Q553	CA11271R	TRS 2SA1037AK T146 RS
Q554	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q555	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q556	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q557	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q558	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q559	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q560	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q561	CA11271R	TRS 2SA1037AK T146 RS
Q562	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
Q563	CA11271R	TRS 2SA1037AK T146 RS
Q564	CA11271R	TRS 2SA1037AK T146 RS
Q603	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q604	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q701	2328102	TRS.FN-521
Q703	2326811R	TRANSISTOR 2SC3468 (E/F)
Q705	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q706	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q707	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q708	2320663M	TRS. 2SC1213A (C)
Q709	2326216	TRS. 2SC3116 (S/T)
Q710	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
⚠ Q777	CF02691F	TRS. 2SC5682 (DP17)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
⚠ Q777	CF02731F	TRS. 2SC5681 (DP14G)
Q801	2327471F	TRS.2SC3950 (HIT D/E)
Q802	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q803	2312372F	TRS-2SC3942
Q804	2312773F	TRS-2SA1546(2)M/L
Q805	2312372F	TRS-2SC3942
Q812	2312372F	TRS-2SC3942
Q851	2327471F	TRS.2SC3950 (HIT D/E)
Q852	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q853	2312372F	TRS-2SC3942
Q854	2312773F	TRS-2SA1546(2)M/L
Q855	2312372F	TRS-2SC3942
Q858	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q859	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q862	2312372F	TRS-2SC3942
Q8A1	2327471F	TRS.2SC3950 (HIT D/E)
Q8A2	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q8A3	2312372F	TRS-2SC3942
Q8A4	2312773F	TRS-2SA1546(2)M/L
Q8A5	2312372F	TRS-2SC3942
Q8A6	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q8A7	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q8C1	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q8C2	2312372F	TRS-2SC3942
Q901	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q902	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q910	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW (DP17)
Q911	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW (DP17)
Q912	2312171	TRS. 2SC3852 (DP17)
Q914	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q915	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q916	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q917	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q918	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
Q919	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
Q920	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QA01	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP14G)
QA02	CA11271R	TRS 2SA1037AK T146 RS (DP14G)
QA03	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP14G)
QA04	CA11271R	TRS 2SA1037AK T146 RS (DP14G)
QA05	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP14G)
QA06	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP14G)
QC01	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC02	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC03	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC04	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC05	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC06	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC07	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC08	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC09	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC10	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC11	CA11271R	TRS 2SA1037AK T146 RS
QC12	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC13	CA11271R	TRS 2SA1037AK T146 RS
QC14	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC15	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC16	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC17	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC18	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QC19	CA11271R	TRS 2SA1037AK T146 RS
QC20	CA11271R	TRS 2SA1037AK T146 RS
QC21	CA11271R	TRS 2SA1037AK T146 RS
QC22	CA11271R	TRS 2SA1037AK T146 RS
QC23	CA11271R	TRS 2SA1037AK T146 RS
QC24	CA11271R	TRS 2SA1037AK T146 RS
QC26	2320663M	TRS. 2SC1213A (C)
QC30	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QC31	CA11271R	TRS 2SA1037AK T146 RS
QC35	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QC36	CA11271R	TRS 2SA1037AK T146 RS
QC40	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QC41	CA11271R	TRS 2SA1037AK T146 RS
QC42	CA11271R	TRS 2SA1037AK T146 RS
QE01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QE02	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QE03	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QE04	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QE05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QE07	CF01881R	TRS. 2SA1283 E
QE08	CF01871R	TRS. 2SC3243 E
QE10	CF01871R	TRS. 2SC3243 E
QE11	CF01881R	TRS. 2SA1283 E
QE22	2326821R	TRANSISTOR 2SA1371 (E/F)
QE23	2315381	TRS. 2SA1837
QE24	2315381	TRS. 2SA1837
QE25	2315391	TRS. 2SC4793
QE26	2315391	TRS. 2SC4793
QE35	2326811R	TRANSISTOR 2SC3468 (E/F)
QE36	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QF03	2320663M	TRS. 2SC1213A (C)
QF04	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QF05	2320663M	TRS. 2SC1213A (C)
QF06	CF00131	TRS. 2SC5022 (1500V) (DP17)
QF06	CF00821F	TRS. 2SC4686A 1200V (DP14G)
QF07	CF00131	TRS. 2SC5022 (1500V) (DP17)
QF07	CF00821F	TRS. 2SC4686A 1200V (DP14G)
QF08	CF00131	TRS. 2SC5022 (1500V) (DP17)
QF08	CF00821F	TRS. 2SC4686A 1200V (DP14G)
⚠ QH01	CF01583F	TRS. 2SK2771-01R-F168R
QH02	2320663M	TRS. 2SC1213A (C)
QJ01	CA00461R	TRS.CHIP 2SD2114K 20V TAPE
QJ02	CA00461R	TRS.CHIP 2SD2114K 20V TAPE
QJ03	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QJ04	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QJ05	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QJ06	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QJ07	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QJ08	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QK01	2312171	TRS. 2SC3852
QK02	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QK03	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW

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SYMBOL NO.	PART NO.	PART DESCRIPTION
QK06	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QK07	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QK08	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QL10	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QL11	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QL12	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW (DP17)
QL13	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW (DP17)
QL14	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW (DP17)
QL15	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW (DP17)
QL16	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QL17	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QM01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QM02	2312992	PHOTO TRS. RPT-38PT3F (M)
QM03	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QM04	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QM05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QN01	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QN02	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QN03	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QN04	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QN05	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QN06	2320591M	TRS. 2SC458 (B TZ/C TZ) SI 230MHZ200MW
QP02	CF02281R	TRS. 2SA821S
QP03	2320637M	TRS. 2SA673 (C 26TZ/D 26TZ) SI 80MHZ 400MW
QS01	CA01241R	TRS.CHIP 2SK160 (DP17)
QS02	CA11252R	TRS.CHIP DTA144EKA (DP17)
QS03	CA11262R	TRS.-CHIP DTC144EKA (DP17)
QS04	CA01241R	TRS.CHIP 2SK160 (DP17)
QS05	CA11252R	TRS.CHIP DTA144EKA (DP17)
QS06	CA11262R	TRS.-CHIP DTC144EKA (DP17)
QS07	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QS08	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QS09	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QS10	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QS11	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QS13	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QS15	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QS16	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QS17	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QS18	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QS19	CA01241R	TRS.CHIP 2SK160 (DP17)
QS20	CA11252R	TRS.CHIP DTA144EKA (DP17)
QS21	CA11262R	TRS.-CHIP DTC144EKA (DP17)
QT01	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QT02	2325691R	TRS CHIP 2SC2412K(Q/R TYPE) (DP17)
QT03	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QT04	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QT05	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QT06	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QT07	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QT08	CA00461R	TRS.CHIP 2SD2114K 20V TAPE (DP17)
QT09	CA11252R	TRS.CHIP DTA144EKA (DP17)
QT10	CA11262R	TRS.-CHIP DTC144EKA (DP17)
QX01	2320663M	TRS. 2SC1213A (C)
QX02	2320663M	TRS. 2SC1213A (C)
QX03	2320663M	TRS. 2SC1213A (C)
QX04	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX05	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX06	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX07	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX08	CA11271R	TRS 2SA1037AK T146 RS
QX09	CA11271R	TRS 2SA1037AK T146 RS
QX10	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX11	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX12	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX13	CA11271R	TRS 2SA1037AK T146 RS
QX14	CA11271R	TRS 2SA1037AK T146 RS
QX15	CA11271R	TRS 2SA1037AK T146 RS
QX16	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX17	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX18	CA11271R	TRS 2SA1037AK T146 RS
QX19	CA11271R	TRS 2SA1037AK T146 RS
QX20	CA11271R	TRS 2SA1037AK T146 RS
QX21	CA11271R	TRS 2SA1037AK T146 RS
QX22	CA11271R	TRS 2SA1037AK T146 RS
QX23	CA11271R	TRS 2SA1037AK T146 RS
QX24	CA11271R	TRS 2SA1037AK T146 RS
QX36	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX37	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX40	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
QX41	2325691R	TRS CHIP 2SC2412K(Q/R TYPE)
		RESISTORS
R001	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R002	0790051R	RES.CHIP 1/16W 10K OHM
R003	0790044R	RES.CHIP 1/16W 3.3K OHM
R004	0790044R	RES.CHIP 1/16W 3.3K OHM
R005	0790037R	RES.CHIP 1/16W 1.0K OHM
R006	0790051R	RES.CHIP 1/16W 10K OHM
R007	0790051R	RES.CHIP 1/16W 10K OHM
R008	0790051R	RES.CHIP 1/16W 10K OHM
R009	0790051R	RES.CHIP 1/16W 10K OHM
R010	0790024R	RES.CHIP 1/16W 100 OHM
R011	0790024R	RES.CHIP 1/16W 100 OHM
R012	0790024R	RES.CHIP 1/16W 100 OHM
R013	0790024R	RES.CHIP 1/16W 100 OHM
R014	0790051R	RES.CHIP 1/16W 10K OHM
R015	0790051R	RES.CHIP 1/16W 10K OHM
R016	0790051R	RES.CHIP 1/16W 10K OHM
R017	0790051R	RES.CHIP 1/16W 10K OHM
R018	0790024R	RES.CHIP 1/16W 100 OHM
R019	0790024R	RES.CHIP 1/16W 100 OHM
R020	0790024R	RES.CHIP 1/16W 100 OHM
R021	0790024R	RES.CHIP 1/16W 100 OHM
R022	0790037R	RES.CHIP 1/16W 1.0K OHM
R023	0790024R	RES.CHIP 1/16W 100 OHM
R024	0790037R	RES.CHIP 1/16W 1.0K OHM
R025	0790051R	RES.CHIP 1/16W 10K OHM
R026	0790077R	RES.CHIP 1/16W 1.0M OHM
R027	0790024R	RES.CHIP 1/16W 100 OHM
R028	0790051R	RES.CHIP 1/16W 10K OHM
R029	0790051R	RES.CHIP 1/16W 10K OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R030	0790051R	RES.CHIP 1/16W 10K OHM	R092	0790059R	RES.CHIP 1/16W 47K OHM
R031	0790037R	RES.CHIP 1/16W 1.0K OHM	R093	0790047R	RES.CHIP 1/16W 5.6K OHM
R032	0790037R	RES.CHIP 1/16W 1.0K OHM	R094	0790024R	RES.CHIP 1/16W 100 OHM
R033	0790037R	RES.CHIP 1/16W 1.0K OHM	R095	0790044R	RES.CHIP 1/16W 3.3K OHM
R034	0790026R	RES.CHIP 1/16W 150 OHM	R096	0790037R	RES.CHIP 1/16W 1.0K OHM
R035	0790044R	RES.CHIP 1/16W 3.3K OHM	R097	0790057R	RES.CHIP 1/16W 33K OHM
R036	0790024R	RES.CHIP 1/16W 100 OHM	R098	0790051R	RES.CHIP 1/16W 10K OHM
R037	0790042R	RES.CHIP 1/16W 2.2K OHM	R0A0	0790037R	RES.CHIP 1/16W 1.0K OHM
R038	0790034R	RES.CHIP 1/16W 560 OHM	R0A1	0790037R	RES.CHIP 1/16W 1.0K OHM
R039	0790034R	RES.CHIP 1/16W 560 OHM	R0A2	0790037R	RES.CHIP 1/16W 1.0K OHM
R040	0790038R	RES.CHIP 1/16W 1.2K OHM	R0A3	0790038R	RES.CHIP 1/16W 1.2K OHM
R041	0790024R	RES.CHIP 1/16W 100 OHM	R0A4	0790051R	RES.CHIP 1/16W 10K OHM
R042	0790027R	RES.CHIP 1/16W 180 OHM	R0A5	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R043	0790027R	RES.CHIP 1/16W 180 OHM	R0A7	0790037R	RES.CHIP 1/16W 1.0K OHM
R044	0790027R	RES.CHIP 1/16W 180 OHM	R0A8	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R045	0790051R	RES.CHIP 1/16W 10K OHM	R0A9	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R046	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	R0C0	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)
R047	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	R0C1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R048	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	R0C3	0790051R	RES.CHIP 1/16W 10K OHM
R049	0790037R	RES.CHIP 1/16W 1.0K OHM	R0C4	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R050	0790059R	RES.CHIP 1/16W 47K OHM	R0C7	0790024R	RES.CHIP 1/16W 100 OHM
R051	0790051R	RES.CHIP 1/16W 10K OHM	R0C8	0790037R	RES.CHIP 1/16W 1.0K OHM
R052	0790037R	RES.CHIP 1/16W 1.0K OHM	R0C9	0790064R	RES.CHIP 1/16W 100K OHM
R053	0790051R	RES.CHIP 1/16W 10K OHM	R0E1	0790047R	RES.CHIP 1/16W 5.6K OHM
R055	0790047R	RES.CHIP 1/16W 5.6K OHM	R0E2	0790069R	RES.CHIP 1/16W 270K OHM
R056	0790047R	RES.CHIP 1/16W 5.6K OHM	R0E4	0790037R	RES.CHIP 1/16W 1.0K OHM
R057	0790059R	RES.CHIP 1/16W 47K OHM	R0E5	0790051R	RES.CHIP 1/16W 10K OHM
R058	0790054R	RES.CHIP 1/16W 18K OHM	R0E6	0790051R	RES.CHIP 1/16W 10K OHM
R059	0790039R	RES.CHIP 1/16W 1.5K OHM	R100	0790051R	RES.CHIP 1/16W 10K OHM
R060	0790064R	RES.CHIP 1/16W 100K OHM	R101	0790059R	RES.CHIP 1/16W 47K OHM
R061	0790052R	RES.CHIP 1/16W 12K OHM	R102	0790047R	RES.CHIP 1/16W 5.6K OHM
R062	0790047R	RES.CHIP 1/16W 5.6K OHM	R103	0790024R	RES.CHIP 1/16W 100 OHM (DP14G)
R063	0790037R	RES.CHIP 1/16W 1.0K OHM	R103	0790028R	RES.CHIP 1/16W 220 OHM (DP17)
R064	0790037R	RES.CHIP 1/16W 1.0K OHM	R104	0790043R	RES.CHIP 1/16W 2.7K OHM
R065	0790037R	RES.CHIP 1/16W 1.0K OHM	R105	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)
R070	0790024R	RES.CHIP 1/16W 100 OHM	R105	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
R071	0790024R	RES.CHIP 1/16W 100 OHM	R106	0790024R	RES.CHIP 1/16W 100 OHM (DP14G)
R072	0790037R	RES.CHIP 1/16W 1.0K OHM	R106	0790028R	RES.CHIP 1/16W 220 OHM (DP17)
R073	0790037R	RES.CHIP 1/16W 1.0K OHM	R107	0790043R	RES.CHIP 1/16W 2.7K OHM
R074	0790024R	RES.CHIP 1/16W 100 OHM	R108	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)
R075	0790024R	RES.CHIP 1/16W 100 OHM	R108	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
R076	0790037R	RES.CHIP 1/16W 1.0K OHM	R109	0790024R	RES.CHIP 1/16W 100 OHM
R077	0790037R	RES.CHIP 1/16W 1.0K OHM	R110	0790024R	RES.CHIP 1/16W 100 OHM
R078	0790037R	RES.CHIP 1/16W 1.0K OHM	R111	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R079	0790037R	RES.CHIP 1/16W 1.0K OHM	R112	0790024R	RES.CHIP 1/16W 100 OHM
R080	0790037R	RES.CHIP 1/16W 1.0K OHM	R113	0790051R	RES.CHIP 1/16W 10K OHM
R081	0790024R	RES.CHIP 1/16W 100 OHM	R114	0790037R	RES.CHIP 1/16W 1.0K OHM
R082	0790024R	RES.CHIP 1/16W 100 OHM	R115	0790042R	RES.CHIP 1/16W 2.2K OHM
R083	0790024R	RES.CHIP 1/16W 100 OHM	R116	0790051R	RES.CHIP 1/16W 10K OHM
R084	0790024R	RES.CHIP 1/16W 100 OHM	R117	0790059R	RES.CHIP 1/16W 47K OHM
R085	0790024R	RES.CHIP 1/16W 100 OHM	R118	0790037R	RES.CHIP 1/16W 1.0K OHM
R086	0790044R	RES.CHIP 1/16W 3.3K OHM	R119	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R087	0790037R	RES.CHIP 1/16W 1.0K OHM	R120	0790024R	RES.CHIP 1/16W 100 OHM
R088	0790057R	RES.CHIP 1/16W 33K OHM	R121	0790024R	RES.CHIP 1/16W 100 OHM
R089	0790051R	RES.CHIP 1/16W 10K OHM	R122	0790024R	RES.CHIP 1/16W 100 OHM
R091	0790051R	RES.CHIP 1/16W 10K OHM	R123	0790024R	RES.CHIP 1/16W 100 OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R124	0790024R	RES.CHIP 1/16W 100 OHM	R184	0790063R	RES.CHIP 1/16W 82K OHM
R125	0790024R	RES.CHIP 1/16W 100 OHM	R185	0790061R	RES.CHIP 1/16W 56K OHM
R126	0790024R	RES.CHIP 1/16W 100 OHM	R186	0790051R	RES.CHIP 1/16W 10K OHM
R127	0790024R	RES.CHIP 1/16W 100 OHM	R187	0790037R	RES.CHIP 1/16W 1.0K OHM
R128	0790024R	RES.CHIP 1/16W 100 OHM	R188	0790051R	RES.CHIP 1/16W 10K OHM
R129	0790024R	RES.CHIP 1/16W 100 OHM	R189	0790055R	RES.CHIP 1/16W 22K OHM
R130	0790024R	RES.CHIP 1/16W 100 OHM	R190	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)
R131	0790024R	RES.CHIP 1/16W 100 OHM	R191	AT03875M	2.2KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP14G)
R132	0790024R	RES.CHIP 1/16W 100 OHM	R192	0790046R	RES.CHIP 1/16W 4.7K OHM
R133	0790024R	RES.CHIP 1/16W 100 OHM	R193	0790052R	RES.CHIP 1/16W 12K OHM
R134	0790037R	RES.CHIP 1/16W 1.0K OHM	R194	0790059R	RES.CHIP 1/16W 47K OHM
R135	0790024R	RES.CHIP 1/16W 100 OHM	R195	0790037R	RES.CHIP 1/16W 1.0K OHM
R136	0790048R	RES.CHIP 1/16W 6.8K OHM	R196	0790037R	RES.CHIP 1/16W 1.0K OHM
R137	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R197	0790061R	RES.CHIP 1/16W 56K OHM
R138	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R198	0790051R	RES.CHIP 1/16W 10K OHM
R139	0790057R	RES.CHIP 1/16W 33K OHM	R199	0790053R	RES.CHIP 1/16W 15K OHM
R141	0790037R	RES.CHIP 1/16W 1.0K OHM	R1A4	0790024R	RES.CHIP 1/16W 100 OHM
R142	0790037R	RES.CHIP 1/16W 1.0K OHM	R1A5	0790051R	RES.CHIP 1/16W 10K OHM
R143	0790037R	RES.CHIP 1/16W 1.0K OHM	R1A6	0790021R	RES.CHIP 1/16W 56 OHM
R144	0790051R	RES.CHIP 1/16W 10K OHM	R1A7	0790051R	RES.CHIP 1/16W 10K OHM
R145	0790051R	RES.CHIP 1/16W 10K OHM	R1A8	0790055R	RES.CHIP 1/16W 22K OHM
R146	0790039R	RES.CHIP 1/16W 1.5K OHM	R1A9	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R147	0790039R	RES.CHIP 1/16W 1.5K OHM	R1C0	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R148	0790039R	RES.CHIP 1/16W 1.5K OHM	R301	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R149	0790039R	RES.CHIP 1/16W 1.5K OHM	R302	0790028R	RES.CHIP 1/16W 220 OHM
R150	0790039R	RES.CHIP 1/16W 1.5K OHM	R303	0790068R	RES.CHIP 1/16W 220K OHM
R151	0790037R	RES.CHIP 1/16W 1.0K OHM	R304	0790059R	RES.CHIP 1/16W 47K OHM
R152	0790037R	RES.CHIP 1/16W 1.0K OHM	R305	0790037R	RES.CHIP 1/16W 1.0K OHM
R153	0790037R	RES.CHIP 1/16W 1.0K OHM	R306	0790042R	RES.CHIP 1/16W 2.2K OHM
R154	0790037R	RES.CHIP 1/16W 1.0K OHM	R307	0790033R	RES.CHIP 1/16W 470 OHM
R155	0790037R	RES.CHIP 1/16W 1.0K OHM	R308	0790046R	RES.CHIP 1/16W 4.7K OHM
R159	0790051R	RES.CHIP 1/16W 10K OHM	R309	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R160	0790037R	RES.CHIP 1/16W 1.0K OHM	R310	0790019R	RES.CHIP 1/16W 47 OHM
R161	0790037R	RES.CHIP 1/16W 1.0K OHM	R311	0790024R	RES.CHIP 1/16W 100 OHM
R162	0790037R	RES.CHIP 1/16W 1.0K OHM	R312	0790024R	RES.CHIP 1/16W 100 OHM
R163	0790037R	RES.CHIP 1/16W 1.0K OHM	R313	0790041R	RES.CHIP 1/16W 1.8K OHM
R164	0790037R	RES.CHIP 1/16W 1.0K OHM	R314	0790051R	RES.CHIP 1/16W 10K OHM
R165	0790024R	RES.CHIP 1/16W 100 OHM	R315	0790042R	RES.CHIP 1/16W 2.2K OHM
R166	0790024R	RES.CHIP 1/16W 100 OHM	R316	0790061R	RES.CHIP 1/16W 56K OHM
R167	0790037R	RES.CHIP 1/16W 1.0K OHM	R317	0790037R	RES.CHIP 1/16W 1.0K OHM
R168	0790047R	RES.CHIP 1/16W 5.6K OHM	R318	0790036R	RES.CHIP 1/16W 820 OHM
R169	0790024R	RES.CHIP 1/16W 100 OHM	R319	0790027R	RES.CHIP 1/16W 180 OHM
R170	0790024R	RES.CHIP 1/16W 100 OHM	R320	0790037R	RES.CHIP 1/16W 1.0K OHM
R171	0790051R	RES.CHIP 1/16W 10K OHM	R321	0790034R	RES.CHIP 1/16W 560 OHM
R172	0790051R	RES.CHIP 1/16W 10K OHM	R322	0790024R	RES.CHIP 1/16W 100 OHM
R173	0790024R	RES.CHIP 1/16W 100 OHM	R323	0790064R	RES.CHIP 1/16W 100K OHM
R174	0790024R	RES.CHIP 1/16W 100 OHM	R324	0790065R	RES.CHIP 1/16W 120K OHM
R175	0790051R	RES.CHIP 1/16W 10K OHM	R325	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R176	0790051R	RES.CHIP 1/16W 10K OHM	R326	0790064R	RES.CHIP 1/16W 100K OHM
R177	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R327	0790047R	RES.CHIP 1/16W 5.6K OHM
R178	0790055R	RES.CHIP 1/16W 22K OHM	R328	0790032R	RES.CHIP 1/16W 390 OHM
R179	0790024R	RES.CHIP 1/16W 100 OHM	R329	0790037R	RES.CHIP 1/16W 1.0K OHM
R180	0790064R	RES.CHIP 1/16W 100K OHM	R331	0790033R	RES.CHIP 1/16W 470 OHM
R181	0790055R	RES.CHIP 1/16W 22K OHM	R332	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R182	0790046R	RES.CHIP 1/16W 4.7K OHM	R333	0790019R	RES.CHIP 1/16W 47 OHM
R183	0790027R	RES.CHIP 1/16W 180 OHM	R334	0790019R	RES.CHIP 1/16W 47 OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R335	0790011R	RES.CHIP 1/16W 10 OHM	R536	0790051R	RES.CHIP 1/16W 10K OHM
R336	0790042R	RES.CHIP 1/16W 2.2K OHM	R537	0790059R	RES.CHIP 1/16W 47K OHM
R337	0790037R	RES.CHIP 1/16W 1.0K OHM	R538	0790055R	RES.CHIP 1/16W 22K OHM
R338	0790037R	RES.CHIP 1/16W 1.0K OHM	R539	0790037R	RES.CHIP 1/16W 1.0K OHM
R339	0790058R	RES.CHIP 1/16W 39K OHM	R540	0790037R	RES.CHIP 1/16W 1.0K OHM
R340	0790051R	RES.CHIP 1/16W 10K OHM	R541	0790037R	RES.CHIP 1/16W 1.0K OHM
R341	0790024R	RES.CHIP 1/16W 100 OHM	R542	0790037R	RES.CHIP 1/16W 1.0K OHM
R342	0790034R	RES.CHIP 1/16W 560 OHM	R551	0790051R	RES.CHIP 1/16W 10K OHM
R343	0790037R	RES.CHIP 1/16W 1.0K OHM	R552	0790051R	RES.CHIP 1/16W 10K OHM
R344	0790044R	RES.CHIP 1/16W 3.3K OHM	R553	0790024R	RES.CHIP 1/16W 100 OHM
R346	0790024R	RES.CHIP 1/16W 100 OHM	R554	0790024R	RES.CHIP 1/16W 100 OHM
R347	0790037R	RES.CHIP 1/16W 1.0K OHM	R558	0790042R	RES.CHIP 1/16W 2.2K OHM
R348	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R559	0790042R	RES.CHIP 1/16W 2.2K OHM
R349	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R560	0790042R	RES.CHIP 1/16W 2.2K OHM
R350	0790011R	RES.CHIP 1/16W 10 OHM	R562	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R351	0790042R	RES.CHIP 1/16W 2.2K OHM	R563	0196104R	RES 1608 CHIP 1/16W 30KJ TAPE
R352	AQ00194R	RES.CHIP 1/16W 1.0K OHM TAPE	R564	0196079R	RES.-1608CHIP 1/16W 3.0K-J TAPE
R353	AQ00194R	RES.CHIP 1/16W 1.0K OHM TAPE	R565	0196056R	RES.-1608CHIP 1/16W 360-J TAPE
R354	0790051R	RES.CHIP 1/16W 10K OHM	R566	0790037R	RES.CHIP 1/16W 1.0K OHM
R355	0790058R	RES.CHIP 1/16W 39K OHM	R567	0790037R	RES.CHIP 1/16W 1.0K OHM
R356	0790024R	RES.CHIP 1/16W 100 OHM	R568	0790042R	RES.CHIP 1/16W 2.2K OHM
R357	AQ00187R	RES.CHIP 1/16W 560 OHM TAPE	R569	0790045R	RES.CHIP 1/16W 3.9K OHM
R358	0790037R	RES.CHIP 1/16W 1.0K OHM	R570	0790024R	RES.CHIP 1/16W 100 OHM
R359	AQ00205R	RES.CHIP 1/16W 2.7K OHM TAPE	R571	0790024R	RES.CHIP 1/16W 100 OHM
R361	0790024R	RES.CHIP 1/16W 100 OHM	R572	AQ00185R	RES.CHIP 1/16W 470 OHM TAPE
R362	0790037R	RES.CHIP 1/16W 1.0K OHM	R573	AQ00176R	RES.CHIP 1/16W 220 OHM TAPE
R363	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R574	AQ00176R	RES.CHIP 1/16W 220 OHM TAPE
R364	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R575	0790024R	RES.CHIP 1/16W 100 OHM
R365	0790024R	RES.CHIP 1/16W 100 OHM	R576	0790049R	RES.CHIP 1/16W 8.2K OHM
R366	0790039R	RES.CHIP 1/16W 1.5K OHM	R577	0790054R	RES.CHIP 1/16W 18K OHM
R501	0790037R	RES.CHIP 1/16W 1.0K OHM	R578	0790024R	RES.CHIP 1/16W 100 OHM
R502	0790037R	RES.CHIP 1/16W 1.0K OHM	R579	0790037R	RES.CHIP 1/16W 1.0K OHM
R503	0790051R	RES.CHIP 1/16W 10K OHM	R580	0790024R	RES.CHIP 1/16W 100 OHM
R504	0790051R	RES.CHIP 1/16W 10K OHM	R581	0790053R	RES.CHIP 1/16W 15K OHM
R507	0790051R	RES.CHIP 1/16W 10K OHM	R582	0790052R	RES.CHIP 1/16W 12K OHM
R508	0790051R	RES.CHIP 1/16W 10K OHM	R583	0790034R	RES.CHIP 1/16W 560 OHM
R509	0790037R	RES.CHIP 1/16W 1.0K OHM	R584	0790032R	RES.CHIP 1/16W 390 OHM
R510	0790037R	RES.CHIP 1/16W 1.0K OHM	R585	0790033R	RES.CHIP 1/16W 470 OHM
R511	0790037R	RES.CHIP 1/16W 1.0K OHM	R586	0790024R	RES.CHIP 1/16W 100 OHM
R512	0790037R	RES.CHIP 1/16W 1.0K OHM	R588	0790059R	RES.CHIP 1/16W 47K OHM
R513	0790024R	RES.CHIP 1/16W 100 OHM	R589	0790058R	RES.CHIP 1/16W 39K OHM
R514	0790024R	RES.CHIP 1/16W 100 OHM	R590	0790059R	RES.CHIP 1/16W 47K OHM
R516	0790024R	RES.CHIP 1/16W 100 OHM	R591	0790046R	RES.CHIP 1/16W 4.7K OHM
R518	0790042R	RES.CHIP 1/16W 2.2K OHM	R592	0790024R	RES.CHIP 1/16W 100 OHM
R519	0790037R	RES.CHIP 1/16W 1.0K OHM	R593	0790059R	RES.CHIP 1/16W 47K OHM
R521	0790037R	RES.CHIP 1/16W 1.0K OHM	R594	0790058R	RES.CHIP 1/16W 39K OHM
R522	0790028R	RES.CHIP 1/16W 220 OHM	R595	0790059R	RES.CHIP 1/16W 47K OHM
R523	0790028R	RES.CHIP 1/16W 220 OHM	R596	0790046R	RES.CHIP 1/16W 4.7K OHM
R524	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R597	0790024R	RES.CHIP 1/16W 100 OHM
R525	0790037R	RES.CHIP 1/16W 1.0K OHM	R598	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R527	0790024R	RES.CHIP 1/16W 100 OHM	R5A1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R529	0790042R	RES.CHIP 1/16W 2.2K OHM	R5A6	0790051R	RES.CHIP 1/16W 10K OHM
R532	0790028R	RES.CHIP 1/16W 220 OHM	R5A7	0790051R	RES.CHIP 1/16W 10K OHM
R533	0790028R	RES.CHIP 1/16W 220 OHM	R5C0	0790055R	RES.CHIP 1/16W 22K OHM
R534	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	R5C1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R535	0790024R	RES.CHIP 1/16W 100 OHM	R5C2	0790037R	RES.CHIP 1/16W 1.0K OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R5C4	0790037R	RES.CHIP 1/16W 1.0K OHM	R721	0700042M	RES.-CARBON FLM 1/16W 1.2K-JB
R5C5	0790024R	RES.CHIP 1/16W 100 OHM	R722	0700032M	RES.-CARBON FLM 1/16W 220-JB
R5C6	0790024R	RES.CHIP 1/16W 100 OHM	R723	AT03862M	220OHM 1/2W RDS50 CARBON FILM RESISTOR
R5C7	0790024R	RES.CHIP 1/16W 100 OHM	R724	0700055M	RES.-CARBON FLM 1/16W 12K-JB
R5C8	0790042R	RES.CHIP 1/16W 2.2K OHM	R725	0100085M	RES.-CARBON FLM 1/8W 6.8K-JB
R5C9	0790044R	RES.CHIP 1/16W 3.3K OHM	R727	AT03874M	1.8KOHM 1/2W RDS50 CARBON FILM RESISTOR
R5E0	0790044R	RES.CHIP 1/16W 3.3K OHM	R728	AT03882M	6.8KOHM 1/2W RDS50 CARBON FILM RESISTOR
R5E1	0790059R	RES.CHIP 1/16W 47K OHM	R729	AT03562S	METAL OX. 100OHM 3W
R5E2	0790059R	RES.CHIP 1/16W 47K OHM	R730	AT03415S	METAL OX. 330OHM 2W (DP17)
R602	0700027M	RES.-CARBON FLM 1/16W 100-JB	R730	AT03422S	METAL OX. 560OHM 2W
R604	0700065M	RES.-CARBON FLM 1/16W 68K-JB	R731	AT01532S	METAL FILM RESISTOR(0.12OHM 1/2W)
R605	0700054M	RES.-CARBON FLM 1/16W 10K-JB	R732	AT03844M	10.0OHM 1/2W RDS50 CARBON FILM RESISTOR
R606	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB	R733	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
R607	AW00129	TRIMMER RESISTOR	R734	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
R608	0700067M	RES.-CARBON FLM 1/16W 100K-JB	R735	0700029M	RES.-CARBON FLM 1/16W 150-JB (DP17)
R609	AT03911M	1MOHM 1/2W RDS50 CARBON FILM RESISTOR	R735	0700034M	RES.-CARBON FLM 1/16W 330-JB (DP14G)
R610	AT03911M	1MOHM 1/2W RDS50 CARBON FILM RESISTOR	R736	0700034M	RES.-CARBON FLM 1/16W 330-JB (DP17)
R611	AT03911M	1MOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)	R736	0700037M	RES.-CARBON FLM 1/16W 560-JB (DP14G)
R612	0700063M	RES.-CARBON FLM 1/16W 47K-JB	R737	AT03869M	820OHM 1/2W RDS50 CARBON FILM RESISTOR
R613	0100053M	RES.-CARBON FLM 1/8W 330-JB	R738	AT03562S	METAL OX. 100OHM 3W (DP17)
R614	0100053M	RES.-CARBON FLM 1/8W 330-JB	R738	AT03588S	METAL OX. 1.0KOHM 3W (DP14G)
R615	0700032M	RES.-CARBON FLM 1/16W 220-JB	R739	AT03251S	METAL OX. 220OHM 1W
R616	0700053M	RES.-CARBON FLM 1/16W 8.2K-JB	R740	AT03251S	METAL OX. 220OHM 1W
R618	0700064M	RES.-CARBON FLM 1/16W 56K-JB	R742	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
R619	AT03191S	METAL OX. 1.2OHM 1W	R747	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R620	AT03191S	METAL OX. 1.2OHM 1W	R748	AT03415S	METAL OX. 330OHM 2W (DP17)
R621	0100045M	RES.-CARBON FLM 1/8W 150-JB	R748	AT03422S	METAL OX. 560OHM 2W (DP14G)
R622	0188095M	RES.-CARBON FLM 1/2W 2.2-J	R802	0100041M	RES.-CARBON FLM 1/8W 100-JB
R625	AT03242S	METAL OX. 100OHM 1W (DP14G)	R803	0100047M	RES.-CARBON FLM 1/8W 180-JB
R625	AT03251S	METAL OX. 220OHM 1W (DP17)	R804	0100017M	RES.-CARBON FLM 1/8W 10-JB
R626	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR	R805	0100037M	RES.-CARBON FLM 1/8W 68-JB
R627	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR	R806	0119559M	RES.-MTL FLM 1/8W 10-FB
R628	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR	R807	AT03867M	560OHM 1/2W RDS50 CARBON FILM RESISTOR
R629	AT03184S	METAL OX. 0.68OHM 1W	R808	0100113M	RES.-CARBON FLM 1/8W 100K-JB
R630	0700054M	RES.-CARBON FLM 1/16W 10K-JB	R809	0100069M	RES.-CARBON FLM 1/8W 1.5K-JB
R631	0700059M	RES.-CARBON FLM 1/16W 27K-JB	R811	0144067	RS99J3Y122JF
R632	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB	R812	0144067	RS99J3Y122JF
R633	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	R813	0100035M	RES.-CARBON FLM 1/8W 56-JB
R701	0100111M	RES.-CARBON FLM 1/8W 82K-JB	R814	0100035M	RES.-CARBON FLM 1/8W 56-JB
R702	0100113M	RES.-CARBON FLM 1/8W 100K-JB	R815	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR
R703	0700054M	RES.-CARBON FLM 1/16W 10K-JB	R816	AT03906M	470KOHM 1/2W RDS50 CARBON FILM RESISTOR
R704	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR	R817	AT03902M	220KOHM 1/2W RDS50 CARBON FILM RESISTOR
R706	AT03877M	3.3KOHM 1/2W RDS50 CARBON FILM RESISTOR	R818	AT03902M	220KOHM 1/2W RDS50 CARBON FILM RESISTOR
R707	AT03877M	3.3KOHM 1/2W RDS50 CARBON FILM RESISTOR	R830	0100049M	RES.-CARBON FLM 1/8W 220-JB
R708	0700067M	RES.-CARBON FLM 1/16W 100K-JB	R831	0100075M	RES.-CARBON FLM 1/8W 2.7K-JB
R709	0700064M	RES.-CARBON FLM 1/16W 56K-JB	R832	0100077M	RES.-CARBON FLM 1/8W 3.3K-JB
R710	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB	R852	0100041M	RES.-CARBON FLM 1/8W 100-JB
R711	AW00123	TRIMMER RESISTOR	R853	0100047M	RES.-CARBON FLM 1/8W 180-JB
R712	0700055M	RES.-CARBON FLM 1/16W 12K-JB	R854	0100017M	RES.-CARBON FLM 1/8W 10-JB
R713	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	R855	0100033M	RES.-CARBON FLM 1/8W 47-JB
R714	0700037M	RES.-CARBON FLM 1/16W 560-JB	R856	0119559M	RES.-MTL FLM 1/8W 10-FB
R715	0700063M	RES.-CARBON FLM 1/16W 47K-JB	R857	AT03867M	560OHM 1/2W RDS50 CARBON FILM RESISTOR
R717	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB	R858	0100113M	RES.-CARBON FLM 1/8W 100K-JB
R718	0700062M	RES.-CARBON FLM 1/16W 39K-JB	R859	0100069M	RES.-CARBON FLM 1/8W 1.5K-JB
R719	0700062M	RES.-CARBON FLM 1/16W 39K-JB	R861	0144067	RS99J3Y122JF
R720	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	R862	0144067	RS99J3Y122JF

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
R863	0100035M	RES.-CARBON FLM 1/8W 56-JB	R925	0700058M	RES.-CARBON FLM 1/16W 22K-JB
R864	0100035M	RES.-CARBON FLM 1/8W 56-JB	⚠ R930	AT03676M	RES.MTL GRAZD FLM 1/2W 6.8M
R865	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR	⚠ R931	0147060	RES.-WIRE WOUND 2W 33-K
R866	AT03906M	470KOHM 1/2W RDS50 CARBON FILM RESISTOR	R932	AT03886M	15KOHM 1/2W RDS50 CARBON FILM RESISTOR
R867	0100069M	RES.-CARBON FLM 1/8W 1.5K-JB	R933	AT03886M	15KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)
R868	AT03863M	270OHM 1/2W RDS50 CARBON FILM RESISTOR	R937	AT03875M	2.2KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)
R869	AT03858M	120OHM 1/2W RDS50 CARBON FILM RESISTOR	R938	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB (DP17)
R870	AT03858M	120OHM 1/2W RDS50 CARBON FILM RESISTOR	R939	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB (DP17)
R873	0100059M	RES.-CARBON FLM 1/8W 560-JB	R940	0700054M	RES.-CARBON FLM 1/16W 10K-JB (DP17)
R880	0100049M	RES.-CARBON FLM 1/8W 220-JB	R941	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB (DP17)
R881	0100075M	RES.-CARBON FLM 1/8W 2.7K-JB	R942	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB (DP17)
R882	0100077M	RES.-CARBON FLM 1/8W 3.3K-JB	R944	0700023M	RES.-CARBON FLM 1/16W 47-J
R8A2	0100041M	RES.-CARBON FLM 1/8W 100-JB	R947	0700031M	RES.-CARBON FLM 1/16W 180-JB
R8A3	0100047M	RES.-CARBON FLM 1/8W 180-JB	R948	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
R8A4	0100017M	RES.-CARBON FLM 1/8W 10-JB	R949	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R8A5	0100037M	RES.-CARBON FLM 1/8W 68-JB	R951	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R8A6	0119559M	RES.-MTL FLM 1/8W 10-FB	R952	0700063M	RES.-CARBON FLM 1/16W 47K-JB
R8A7	AT03867M	560OHM 1/2W RDS50 CARBON FILM RESISTOR	R954	0700032M	RES.-CARBON FLM 1/16W 220-JB
R8A8	0100113M	RES.-CARBON FLM 1/8W 100K-JB	R955	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R8A9	0100069M	RES.-CARBON FLM 1/8W 1.5K-JB	R956	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
R8C1	0144067	RS99J3Y122JF	R957	0700058M	RES.-CARBON FLM 1/16W 22K-JB
R8C2	0144067	RS99J3Y122JF	R958	0700027M	RES.-CARBON FLM 1/16W 100-JB
R8C3	0100035M	RES.-CARBON FLM 1/8W 56-JB	R959	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R8C4	0100035M	RES.-CARBON FLM 1/8W 56-JB	⚠ R960	0700036M	RES.-CARBON FLM 1/16W 470-JB
R8C5	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR	R961	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R8C6	AT03906M	470KOHM 1/2W RDS50 CARBON FILM RESISTOR	R962	0700054M	RES.-CARBON FLM 1/16W 10K-JB
R8E3	0100089M	RES.-CARBON FLM 1/8W 10K-JB	R963	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB (DP17)
R8E4	0100105M	RES.-CARBON FLM 1/8W 47K-JB	R964	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R8E5	0100037M	RES.-CARBON FLM 1/8W 68-JB	R965	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R8E6	0100067M	RES.-CARBON FLM 1/8W 1.2K-JB	R967	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R8E7	0100087M	RES.-CARBON FLM 1/8W 8.2K-JB	R968	AT03266S	METAL OX. 820OHM 1W
R8E8	0100083M	RES.-CARBON FLM 1/8W 5.6K-JB	R969	0700032M	RES.-CARBON FLM 1/16W 220-JB
R8F0	0100049M	RES.-CARBON FLM 1/8W 220-JB	R970	0700055M	RES.-CARBON FLM 1/16W 12K-JB
R8F1	0100075M	RES.-CARBON FLM 1/8W 2.7K-JB	R971	AT03539S	METAL OX. 15.0OHM 3W (DP17)
R8F2	0100077M	RES.-CARBON FLM 1/8W 3.3K-JB	R971	AT03553S	METAL OX. 47.0OHM 3W (DP14G)
R901	AT03672M	RES.MTL GRAZD FLM 1/2W 3.3M	R972	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R902	0147802	RES.-WIRE WOUND 15W 0.62-KM	R973	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
R903	AT03888M	22KOHM 1/2W RDS50 CARBON FILM RESISTOR	RA01	0790024R	RES.CHIP 1/16W 100 OHM (DP14G)
R904	AT03888M	22KOHM 1/2W RDS50 CARBON FILM RESISTOR	RA02	0790024R	RES.CHIP 1/16W 100 OHM (DP14G)
R905	AT03905M	390KOHM 1/2W RDS50 CARBON FILM RESISTOR	RA03	0790051R	RES.CHIP 1/16W 10K OHM (DP14G)
R906	0100037M	RES.-CARBON FLM 1/8W 68-JB	RA04	0790051R	RES.CHIP 1/16W 10K OHM (DP14G)
R907	AT03219S	METAL OX. 15.0OHM 1W	RA05	0790048R	RES.CHIP 1/16W 6.8K OHM (DP14G)
R908	0100073M	RES.-CARBON FLM 1/8W 2.2K-JB	RA32	0790058R	RES.CHIP 1/16W 39K OHM (DP14G)
R909	0700038M	RES.-CARBON FLM 1/16W 680-JB	RA33	0790024R	RES.CHIP 1/16W 100 OHM (DP14G)
R910	AT01536S	METAL FILM RESISTOR(0.33OHM 1/2W) (DP17)	RA34	0790052R	RES.CHIP 1/16W 12K OHM (DP14G)
R910	AT03186S	METAL OX. 0.82OHM 1W (DP14G)	RA35	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)
R911	AT01534S	METAL FILM 0.22OHM 1/2W (DP17)	RA36	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)
R911	AT03186S	METAL OX. 0.82OHM 1W (DP14G)	RA37	0790031R	RES.CHIP 1/16W 330 OHM (DP14G)
R912	AT03186S	METAL OX. 0.82OHM 1W (DP14G)	RA38	0790028R	RES.CHIP 1/16W 220 OHM (DP14G)
R913	0700036M	RES.-CARBON FLM 1/16W 470-JB	RA39	0790063R	RES.CHIP 1/16W 82K OHM (DP14G)
⚠ R914	AT03665M	RES.MTL GRAZD FLM 1/2W 1M	RA40	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)
R917	0700056M	RES.-CARBON FLM 1/16W 15K-JB	RA41	0790064R	RES.CHIP 1/16W 100K OHM (DP14G)
R918	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB	RA42	0790058R	RES.CHIP 1/16W 39K OHM (DP14G)
R920	AT03897M	100KOHM 1/2W RDS50 CARBON FILM RESISTOR	RA43	0790024R	RES.CHIP 1/16W 100 OHM (DP14G)
R922	0100033M	RES.-CARBON FLM 1/8W 47-JB	RA44	0790052R	RES.CHIP 1/16W 12K OHM (DP14G)
R923	0700054M	RES.-CARBON FLM 1/16W 10K-JB	RA45	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RA46	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)	RC31	0187084M	RES.-CARBON FLM 1/16W 6.2K-JB
RA47	0790031R	RES.CHIP 1/16W 330 OHM (DP14G)	RC32	0790055R	RES.CHIP 1/16W 22K OHM
RA48	0790028R	RES.CHIP 1/16W 220 OHM (DP14G)	RC33	0790051R	RES.CHIP 1/16W 10K OHM
RA49	0790063R	RES.CHIP 1/16W 82K OHM (DP14G)	RC34	0196056R	RES.-1608CHIP 1/16W 360-J TAPE
RA50	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)	RC35	0790037R	RES.CHIP 1/16W 1.0K OHM
RA51	0790064R	RES.CHIP 1/16W 100K OHM (DP14G)	RC36	0790037R	RES.CHIP 1/16W 1.0K OHM
RA52	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)	RC37	0790037R	RES.CHIP 1/16W 1.0K OHM
RA53	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)	RC38	0790039R	RES.CHIP 1/16W 1.5K OHM
RA63	0790059R	RES.CHIP 1/16W 47K OHM (DP14G)	RC39	0790037R	RES.CHIP 1/16W 1.0K OHM
RA67	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)	RC40	0790039R	RES.CHIP 1/16W 1.5K OHM
RA68	0790059R	RES.CHIP 1/16W 47K OHM (DP14G)	RC41	0790037R	RES.CHIP 1/16W 1.0K OHM
RA69	0790059R	RES.CHIP 1/16W 47K OHM (DP14G)	RC42	0790051R	RES.CHIP 1/16W 10K OHM
RA70	0790061R	RES.CHIP 1/16W 56K OHM (DP14G)	RC43	0790051R	RES.CHIP 1/16W 10K OHM
RA77	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)	RC44	0790037R	RES.CHIP 1/16W 1.0K OHM
RA78	0790037R	RES.CHIP 1/16W 1.0K OHM (DP14G)	RC45	0790037R	RES.CHIP 1/16W 1.0K OHM
RA79	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)	RC46	0790024R	RES.CHIP 1/16W 100 OHM
RA80	0790059R	RES.CHIP 1/16W 47K OHM (DP14G)	RC47	0790049R	RES.CHIP 1/16W 8.2K OHM
RA81	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)	RC48	0790043R	RES.CHIP 1/16W 2.7K OHM
RA82	0790059R	RES.CHIP 1/16W 47K OHM (DP14G)	RC49	0790037R	RES.CHIP 1/16W 1.0K OHM
RA83	0790064R	RES.CHIP 1/16W 100K OHM (DP14G)	RC50	0790037R	RES.CHIP 1/16W 1.0K OHM
RA84	0790064R	RES.CHIP 1/16W 100K OHM (DP14G)	RC51	0790051R	RES.CHIP 1/16W 10K OHM
RAC3	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)	RC52	0790051R	RES.CHIP 1/16W 10K OHM
RAE7	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)	RC53	0790037R	RES.CHIP 1/16W 1.0K OHM
RAE8	0790028R	RES.CHIP 1/16W 220 OHM (DP14G)	RC54	0790037R	RES.CHIP 1/16W 1.0K OHM
RAE9	0790028R	RES.CHIP 1/16W 220 OHM (DP14G)	RC55	0790044R	RES.CHIP 1/16W 3.3K OHM
RAF9	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)	RC56	0790037R	RES.CHIP 1/16W 1.0K OHM
RAH1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)	RC57	0790051R	RES.CHIP 1/16W 10K OHM
RC01	0790024R	RES.CHIP 1/16W 100 OHM	RC58	0790038R	RES.CHIP 1/16W 1.2K OHM
RC02	0790024R	RES.CHIP 1/16W 100 OHM	RC59	0790045R	RES.CHIP 1/16W 3.9K OHM
RC03	0790024R	RES.CHIP 1/16W 100 OHM	RC60	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RC04	0790028R	RES.CHIP 1/16W 220 OHM	RC61	0790037R	RES.CHIP 1/16W 1.0K OHM
RC05	0790034R	RES.CHIP 1/16W 560 OHM	RC62	0790056R	RES.CHIP 1/16W 27K OHM
RC06	0790034R	RES.CHIP 1/16W 560 OHM	RC63	0790024R	RES.CHIP 1/16W 100 OHM
RC07	0790021R	RES.CHIP 1/16W 56 OHM	RC64	0790024R	RES.CHIP 1/16W 100 OHM
RC08	0790021R	RES.CHIP 1/16W 56 OHM	RC65	0790024R	RES.CHIP 1/16W 100 OHM
RC09	0790021R	RES.CHIP 1/16W 56 OHM	RC66	0790037R	RES.CHIP 1/16W 1.0K OHM
RC10	0790024R	RES.CHIP 1/16W 100 OHM	RC67	0790043R	RES.CHIP 1/16W 2.7K OHM
RC11	0790024R	RES.CHIP 1/16W 100 OHM	RC68	0790043R	RES.CHIP 1/16W 2.7K OHM
RC12	0790024R	RES.CHIP 1/16W 100 OHM	RC69	0790043R	RES.CHIP 1/16W 2.7K OHM
RC13	0790039R	RES.CHIP 1/16W 1.5K OHM	RC70	0790024R	RES.CHIP 1/16W 100 OHM
RC14	0790039R	RES.CHIP 1/16W 1.5K OHM	RC71	0790024R	RES.CHIP 1/16W 100 OHM
RC15	0790039R	RES.CHIP 1/16W 1.5K OHM	RC72	0790024R	RES.CHIP 1/16W 100 OHM
RC16	0790042R	RES.CHIP 1/16W 2.2K OHM	RC73	0790043R	RES.CHIP 1/16W 2.7K OHM
RC17	0790042R	RES.CHIP 1/16W 2.2K OHM	RC74	0790043R	RES.CHIP 1/16W 2.7K OHM
RC18	0790042R	RES.CHIP 1/16W 2.2K OHM	RC75	0790043R	RES.CHIP 1/16W 2.7K OHM
RC19	0790042R	RES.CHIP 1/16W 2.2K OHM	RC76	0790029R	RES.CHIP 1/16W 270 OHM
RC20	0790042R	RES.CHIP 1/16W 2.2K OHM	RC77	0790029R	RES.CHIP 1/16W 270 OHM
RC21	0790042R	RES.CHIP 1/16W 2.2K OHM	RC78	0790029R	RES.CHIP 1/16W 270 OHM
RC22	0790042R	RES.CHIP 1/16W 2.2K OHM	RC79	0790037R	RES.CHIP 1/16W 1.0K OHM
RC23	0790042R	RES.CHIP 1/16W 2.2K OHM	RC80	0790037R	RES.CHIP 1/16W 1.0K OHM
RC24	0790042R	RES.CHIP 1/16W 2.2K OHM	RC81	0790037R	RES.CHIP 1/16W 1.0K OHM
RC26	0790024R	RES.CHIP 1/16W 100 OHM	RC82	0790024R	RES.CHIP 1/16W 100 OHM
RC27	0790024R	RES.CHIP 1/16W 100 OHM	RC83	0790024R	RES.CHIP 1/16W 100 OHM
RC28	0790024R	RES.CHIP 1/16W 100 OHM	RC84	0790037R	RES.CHIP 1/16W 1.0K OHM
RC29	0790024R	RES.CHIP 1/16W 100 OHM	RC85	0790043R	RES.CHIP 1/16W 2.7K OHM
RC30	0790024R	RES.CHIP 1/16W 100 OHM	RC90	0790024R	RES.CHIP 1/16W 100 OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RC93	0790037R	RES.CHIP 1/16W 1.0K OHM
RC94	0790017R	RES.CHIP 1/16W 33 OHM
RE01	0100065M	RES.-CARBON FLM 1/8W 1K-JB
RE02	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RE03	0700066M	RES.-CARBON FLM 1/16W 82K-JB
RE04	0700024M	RES.-CARBON FLM 1/16W 56-J
RE05	AT03866M	470OHM 1/2W RDS50 CARBON FILM RESISTOR
RE06	0700018M	RES.-CARBON FLM 1/16W 22-J
RE07	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RE08	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RE09	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RE10	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RE11	0700027M	RES.-CARBON FLM 1/16W 100-JB
RE12	0700024M	RES.-CARBON FLM 1/16W 56-J
RE13	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RE16	0700027M	RES.-CARBON FLM 1/16W 100-JB
RE17	AT03876M	2.7OHM 1/2W RDS50 CARBON FILM RESISTOR
RE18	0700065M	RES.-CARBON FLM 1/16W 68K-JB
RE19	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
RE20	0700024M	RES.-CARBON FLM 1/16W 56-J
RE21	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR
RE23	AT03869M	820OHM 1/2W RDS50 CARBON FILM RESISTOR
RE24	0700027M	RES.-CARBON FLM 1/16W 100-JB
RE27	0113750M	RES.-CARBON FLM 1/2W 1K-JB
RE28	0700017M	RES.-CARBON FLM 1/16W 18-J
RE29	0113750M	RES.-CARBON FLM 1/2W 1K-JB
RE31	0700014M	RES.-CARBON FLM 1/16W 10-J
RE32	0700014M	RES.-CARBON FLM 1/16W 10-J
RE33	AT03848M	22.0OHM 1/2W RDS50 CARBON FILM RESISTOR
RE50	AT03419S	METAL OX. 470 OHM 2W
RE51	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RE52	0100021M	RES.-CARBON FLM 1/8W 15-JB
RE55	0700067M	RES.-CARBON FLM 1/16W 100K-JB
RE56	0100065M	RES.-CARBON FLM 1/8W 1K-JB
RE57	0113791M	RES.-CARBON FLM 1/2W 47K-JB
RE60	AT03897M	100KOHM 1/2W RDS50 CARBON FILM RESISTOR
RE61	0100065M	RES.-CARBON FLM 1/8W 1K-JB
RE62	0100033M	RES.-CARBON FLM 1/8W 47-JB
RE66	0100033M	RES.-CARBON FLM 1/8W 47-JB
RE67	AT03853M	47.0OHM 1/2W RDS50 CARBON FILM RESISTOR
RE68	AT03853M	47.0OHM 1/2W RDS50 CARBON FILM RESISTOR
RE69	0113698M	RES.-CARBON FLM 1/2W 8.2-J
RE70	0113698M	RES.-CARBON FLM 1/2W 8.2-J
RE71	0100041M	RES.-CARBON FLM 1/8W 100-JB
RE72	0100041M	RES.-CARBON FLM 1/8W 100-JB
RE73	0100095M	RES.-CARBON FLM 1/8W 18K-JB
RE74	AT03894M	56KOHM 1/2W RDS50 CARBON FILM RESISTOR
RE75	AT03894M	56KOHM 1/2W RDS50 CARBON FILM RESISTOR
RE76	0100095M	RES.-CARBON FLM 1/8W 18K-JB
RE77	AT03571S	METAL OX. 220OHM 3W
RE78	AT03571S	METAL OX. 220OHM 3W
REE5	AT03897M	100KOHM 1/2W RDS50 CARBON FILM RESISTOR
REE6	0700065M	RES.-CARBON FLM 1/16W 68K-JB
REE7	0700064M	RES.-CARBON FLM 1/16W 56K-JB
REF0	0100113M	RES.-CARBON FLM 1/8W 100K-JB
REF1	0700055M	RES.-CARBON FLM 1/16W 12K-JB
REF4	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RF07	0700067M	RES.-CARBON FLM 1/16W 100K-JB
RF08	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RF09	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RF10	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR
RF11	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RF13	0700056M	RES.-CARBON FLM 1/16W 15K-JB
RF14	0700025M	RES.-CARBON FLM 1/16W 68-J
RF15	AT03654M	RES.MTL GRAZD FLM 1/2W 180K
RF16	AT03654M	RES.MTL GRAZD FLM 1/2W 180K
RF17	AT03654M	RES.MTL GRAZD FLM 1/2W 180K
RF18	AT03662M	RES.MTL GRAZD FLM 1/2W 560K
RF19	AT03662M	RES.MTL GRAZD FLM 1/2W 560K
RF20	0700025M	RES.-CARBON FLM 1/16W 68-J
RF21	0700048M	RES.-CARBON FLM 1/16W 3.9K-JB (DP17)
RF21	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB (DP14G)
RF22	0187096M	RES.-CARBON FLM 1/16W 20K-JB
RF23	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RF25	AT03662M	RES.MTL GRAZD FLM 1/2W 560K
RF26	AT03662M	RES.MTL GRAZD FLM 1/2W 560K
RF27	AT03661M	RES.MTL GRAZD FLM 1/2W 470K
RF28	0700059M	RES.-CARBON FLM 1/16W 27K-JB
RF29	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
RF30	AT03888M	22KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)
RF30	AT03892M	39KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP14G)
RF33	AT03888M	22KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)
RF33	AT03892M	39KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP14G)
RF34	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RF35	AT03911M	1MOHM 1/2W RDS50 CARBON FILM RESISTOR
RF36	AT03857M	100OHM 1/2W RDS50 CARBON FILM RESISTOR
RF37	AT03911M	1MOHM 1/2W RDS50 CARBON FILM RESISTOR
RG04	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RG06	0790024R	RES.CHIP 1/16W 100 OHM
RG07	0790052R	RES.CHIP 1/16W 12K OHM
RG08	0790057R	RES.CHIP 1/16W 33K OHM
RG09	0790022R	RES.CHIP 1/16W 68 OHM
RG13	0790024R	RES.CHIP 1/16W 100 OHM
RG21	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RG23	0790024R	RES.CHIP 1/16W 100 OHM
RG24	0790052R	RES.CHIP 1/16W 12K OHM
RG25	0790057R	RES.CHIP 1/16W 33K OHM
RG26	0790022R	RES.CHIP 1/16W 68 OHM
RG30	0790024R	RES.CHIP 1/16W 100 OHM
RG39	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RG41	0790024R	RES.CHIP 1/16W 100 OHM
RG42	0790052R	RES.CHIP 1/16W 12K OHM
RG43	0790057R	RES.CHIP 1/16W 33K OHM
RG44	0790022R	RES.CHIP 1/16W 68 OHM
RG48	0790024R	RES.CHIP 1/16W 100 OHM
RG49	0790037R	RES.CHIP 1/16W 1.0K OHM
RG50	0790037R	RES.CHIP 1/16W 1.0K OHM
RG51	0790037R	RES.CHIP 1/16W 1.0K OHM
RG52	0790037R	RES.CHIP 1/16W 1.0K OHM
RG53	0790037R	RES.CHIP 1/16W 1.0K OHM
RG54	0790037R	RES.CHIP 1/16W 1.0K OHM
RG58	0790051R	RES.CHIP 1/16W 10K OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RG59	0790024R	RES.CHIP 1/16W 100 OHM
RG60	0790024R	RES.CHIP 1/16W 100 OHM
RG61	0790074R	RES.CHIP 1/16W 560K OHM
RG62	0790023R	RES.CHIP 1/16W 82 OHM
RG63	0790037R	RES.CHIP 1/16W 1.0K OHM
RH01	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
RH02	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RH03	0700061M	RES.-CARBON FLM 1/16W 33K-JB (DP17)
RH03	0700065M	RES.-CARBON FLM 1/16W 68K-JB (DP14G)
RH04	0700062M	RES.-CARBON FLM 1/16W 39K-JB
RH05	0700059M	RES.-CARBON FLM 1/16W 27K-JB
RH07	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RH08	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RH09	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RH10	AT03869M	820OHM 1/2W RDS50 CARBON FILM RESISTOR
RH13	0100033M	RES.-CARBON FLM 1/8W 47-JB
RH14	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
⚠ RH15	0148052	RES.-WIRE WOUND 0.68-K 3W
RH16	0100047M	RES.-CARBON FLM 1/8W 180-JB
RH17	AW00208	TRIMMER RESISTOR 100KOHM 1/2W
RH18	0700062M	RES.-CARBON FLM 1/16W 39K-JB
⚠ RH19	0119653M	RES.-MTL FLM 1/8W 82K-FB
⚠ RH20	0119645M	RES.-MTL FLM 1/8W 39K-FB (DP17)
RH20	0119647M	RES.-MTL FLM 1/8W 47K-FB (DP14G)
RH21	AT03867M	560OHM 1/2W RDS50 CARBON FILM RESISTOR
RH22	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
⚠ RH23	AT03882M	6.8KOHM 1/2W RDS50 CARBON FILM RESISTOR
RH24	0119647M	RES.-MTL FLM 1/8W 47K-FB (DP17)
RH24	0119648M	RES.-MTL FLM 1/8W 51K-FB (DP14G)
⚠ RH25	0119635M	RES.-MTL FLM 1/8W 15K-FB
RH26	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RH27	AT03889M	27KOHM 1/2W RDS50 CARBON FILM RESISTOR
RH27	AT03892M	39KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)
RH28	AT03893M	47KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)
RH28	AT03894M	56KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP14G)
RH31	AT03882M	6.8KOHM 1/2W RDS50 CARBON FILM RESISTOR
RH32	0100121M	RES.-CARBON FLM 1/8W 220K-JB
RJ01	0790042R	RES.CHIP 1/16W 2.2K OHM
RJ02	0790042R	RES.CHIP 1/16W 2.2K OHM
RJ03	0790037R	RES.CHIP 1/16W 1.0K OHM
RJ04	0790037R	RES.CHIP 1/16W 1.0K OHM
RJ05	0790042R	RES.CHIP 1/16W 2.2K OHM
RJ06	0790042R	RES.CHIP 1/16W 2.2K OHM
RJ07	0790059R	RES.CHIP 1/16W 47K OHM
RJ08	0790064R	RES.CHIP 1/16W 100K OHM
RJ09	0790059R	RES.CHIP 1/16W 47K OHM
RJ10	0790033R	RES.CHIP 1/16W 470 OHM
RJ11	0790055R	RES.CHIP 1/16W 22K OHM
RJ12	0790037R	RES.CHIP 1/16W 1.0K OHM
RJ13	0790062R	RES.CHIP 1/16W 68K OHM
RJ14	0790062R	RES.CHIP 1/16W 68K OHM
RJ15	AT03197S	METAL OX. 2.2OHM 1W
RJ16	AT03197S	METAL OX. 2.2OHM 1W
RJ17	AT03871M	1KOHM 1/2W RDS50 CARBON FILM RESISTOR
RJ18	AT03871M	1KOHM 1/2W RDS50 CARBON FILM RESISTOR
RJ19	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RJ20	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RJ21	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RJ22	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RJ27	0790042R	RES.CHIP 1/16W 2.2K OHM (DP17)
RJ28	0790042R	RES.CHIP 1/16W 2.2K OHM (DP17)
RJ29	0790042R	RES.CHIP 1/16W 2.2K OHM (DP17)
RJ30	0790042R	RES.CHIP 1/16W 2.2K OHM (DP17)
RJ31	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RJ32	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RJ33	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RJ34	0790064R	RES.CHIP 1/16W 100K OHM (DP17)
RJ35	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RJ36	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RJ37	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RJ38	0790033R	RES.CHIP 1/16W 470 OHM (DP17)
RJ39	0790055R	RES.CHIP 1/16W 22K OHM (DP17)
RJ40	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RJ41	0790062R	RES.CHIP 1/16W 68K OHM (DP17)
RJ42	0790062R	RES.CHIP 1/16W 68K OHM (DP17)
RJ43	AT03197S	METAL OX. 2.2OHM 1W (DP17)
RJ44	AT03871M	1KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)
RJ45	AT03197S	METAL OX. 2.2OHM 1W (DP17)
RJ46	AT03871M	1KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)
RJ48	0790077R	RES.CHIP 1/16W 1.0M OHM (DP17)
RJ49	0790077R	RES.CHIP 1/16W 1.0M OHM (DP17)
RJ50	0196125R	RES.-1608CHIP 1/16W 200K-J TAPE (DP17)
RJ51	0790053R	RES.CHIP 1/16W 15K OHM (DP17)
RJ52	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)
RJ53	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)
RJ54	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP14G)
RK01	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RK02	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RK03	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RK04	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RK05	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RK06	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RK07	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RK08	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RK09	0100057M	RES.-CARBON FLM 1/8W 470-JB
RK10	0700042M	RES.-CARBON FLM 1/16W 1.2K-JB
RK11	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RK12	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RK13	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RK17	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RK18	0700048M	RES.-CARBON FLM 1/16W 3.9K-JB
RK22	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RK23	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
RK24	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
RK25	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RK26	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RK27	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RK28	0700027M	RES.-CARBON FLM 1/16W 100-JB
RK29	0700027M	RES.-CARBON FLM 1/16W 100-JB
RK30	0700027M	RES.-CARBON FLM 1/16W 100-JB
RK31	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RK32	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RK33	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RK34	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RK35	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RK36	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RK37	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RK38	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RK39	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RK40	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RK42	AT03197S	METAL OX. 2.2OHM 1W (DP17)
RK42	AT03202S	METAL OX. 3.3OHM 1W (DP14G)
RK43	AT03411S	METAL OX. 220OHM 2W
RK44	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RK46	AT03193S	METAL OX. 1.5OHM 1W (DP17)
RK46	AT03195S	METAL OX. 1.8OHM 1W (DP14G)
RK47	AT03406S	METAL OX. 150OHM 2W
RK48	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RK50	AT03197S	METAL OX. 2.2OHM 1W (DP17)
RK50	AT03199S	METAL OX. 2.7OHM 1W (DP14G)
RK51	AT03411S	METAL OX. 220OHM 2W
RK52	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RK54	AT03193S	METAL OX. 1.5OHM 1W
RK55	AT03406S	METAL OX. 150OHM 2W
RK56	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RK58	AT03199S	METAL OX. 2.7OHM 1W (DP17)
RK58	AT03204S	METAL OX. 3.9OHM 1W (DP14G)
RK59	AT03411S	METAL OX. 220OHM 2W
RK60	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RK62	AT03195S	METAL OX. 1.8OHM 1W (DP17)
RK62	AT03197S	METAL OX. 2.2OHM 1W (DP14G)
RK63	AT03406S	METAL OX. 150OHM 2W
RK64	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RK65	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RK90	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RK97	AT03193S	METAL OX. 1.5OHM 1W
RK99	0188097M	RES.-CARBON FLM 1/2W 3.3-J
RL10	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RL11	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RL12	0100129M	RES.-CARBON FLM 1/8W 470K-JB (DP17)
RL13	0100129M	RES.-CARBON FLM 1/8W 470K-JB (DP17)
RL14	0100129M	RES.-CARBON FLM 1/8W 470K-JB (DP17)
RL15	0100129M	RES.-CARBON FLM 1/8W 470K-JB (DP17)
RL16	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RL17	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RL20	0100133M	RES.-CARBON FLM 1/8W 680K-JB (DP17)
RL20	0700063M	RES.-CARBON FLM 1/16W 47K-JB (DP14G)
RL21	0100119M	RES.-CARBON FLM 1/8W 180K-JB (DP14G)
RL21	0100121M	RES.-CARBON FLM 1/8W 220K-JB (DP17)
RL22	0100133M	RES.-CARBON FLM 1/8W 680K-JB (DP17)
RL23	0100129M	RES.-CARBON FLM 1/8W 470K-JB (DP17)
RL24	0100133M	RES.-CARBON FLM 1/8W 680K-JB (DP17)
RL25	0100121M	RES.-CARBON FLM 1/8W 220K-JB (DP17)
RL26	0100133M	RES.-CARBON FLM 1/8W 680K-JB (DP17)
RL26	0700063M	RES.-CARBON FLM 1/16W 47K-JB (DP14G)
RL27	0100119M	RES.-CARBON FLM 1/8W 180K-JB (DP14G)
RL27	0100129M	RES.-CARBON FLM 1/8W 470K-JB (DP17)
RL30	0700027M	RES.-CARBON FLM 1/16W 100-JB
RL31	0700027M	RES.-CARBON FLM 1/16W 100-JB
RL32	0700027M	RES.-CARBON FLM 1/16W 100-JB (DP17)
RL33	0700027M	RES.-CARBON FLM 1/16W 100-JB (DP17)
RL34	0700027M	RES.-CARBON FLM 1/16W 100-JB (DP17)
RL35	0700027M	RES.-CARBON FLM 1/16W 100-JB (DP17)
RL36	0700027M	RES.-CARBON FLM 1/16W 100-JB
RL37	0700027M	RES.-CARBON FLM 1/16W 100-JB
RM01	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM02	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RM03	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RM04	0100065M	RES.-CARBON FLM 1/8W 1K-JB
RM05	0100065M	RES.-CARBON FLM 1/8W 1K-JB
RM06	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM07	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
RM08	0700046M	RES.-CARBON FLM 1/16W 2.7K-JB
RM09	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
RM10	0100129M	RES.-CARBON FLM 1/8W 470K-JB
RM11	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM12	0100125M	RES.-CARBON FLM 1/8W 330K-JB
RM13	AT03871M	1KOHM 1/2W RDS50 CARBON FILM RESISTOR
RM14	0100125M	RES.-CARBON FLM 1/8W 330K-JB
RM15	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RM20	0100041M	RES.-CARBON FLM 1/8W 100-JB
RM21	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM22	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM23	0700064M	RES.-CARBON FLM 1/16W 56K-JB
RM24	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RM25	0100123M	RES.-CARBON FLM 1/8W 270K-JB
RM26	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RM27	0700064M	RES.-CARBON FLM 1/16W 56K-JB
RM28	0100123M	RES.-CARBON FLM 1/8W 270K-JB
RM29	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM30	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM31	0100041M	RES.-CARBON FLM 1/8W 100-JB
RM35	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM38	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM40	0700067M	RES.-CARBON FLM 1/16W 100K-JB
RM41	0700032M	RES.-CARBON FLM 1/16W 220-JB
RM42	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RM43	0700059M	RES.-CARBON FLM 1/16W 27K-JB
RN01	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RN02	0700057M	RES.-CARBON FLM 1/16W 18K-JB
RN03	0700061M	RES.-CARBON FLM 1/16W 33K-JB
RN04	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RN05	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB
RN06	0700044M	RES.-CARBON FLM 1/16W 1.8K-JB
RN08	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB
RN09	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
RN10	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RN11	0700067M	RES.-CARBON FLM 1/16W 100K-JB
RN12	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RN13	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
RN14	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RN15	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
RN16	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
RN17	0700063M	RES.-CARBON FLM 1/16W 47K-JB

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RP01	AT03905M	390KOHM 1/2W RDS50 CARBON FILM RESISTOR
RP02	AT03444S	METAL OX. 3.9KOHM 2W
RP03	AT03444S	METAL OX. 3.9KOHM 2W
RP04	0700038M	RES.-CARBON FLM 1/16W 680-JB
RP05	AT03844M	10.0OHM 1/2W RDS50 CARBON FILM RESISTOR
⚠ RP07	AT03665M	RES.MTL GRAZD FLM 1/2W 1M
RP08	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RP09	0700047M	RES.-CARBON FLM 1/16W 3.3K-JB
RP10	AT01534S	METAL FILM 0.22OHM 1/2W
RP11	AT01534S	METAL FILM 0.22OHM 1/2W
RP12	AT01534S	METAL FILM 0.22OHM 1/2W
RP13	0700055M	RES.-CARBON FLM 1/16W 12K-JB
RP14	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RP15	0700032M	RES.-CARBON FLM 1/16W 220-JB
RP16	AT01534S	METAL FILM 0.22OHM 1/2W
RP19	0700051M	RES.-CARBON FLM 1/16W 5.6K-JB
RP20	AT03886M	15KOHM 1/2W RDS50 CARBON FILM RESISTOR
RP21	AT03886M	15KOHM 1/2W RDS50 CARBON FILM RESISTOR
RP22	AT03608S	METAL OX. 5.6KOHM 3W
RP23	AT03879M	4.7KOHM 1/2W RDS50 CARBON FILM RESISTOR
RP24	0119693M	RES.-MTL FLM 1W 0.39-JB (DP17)
RP24	AT03179S	METAL OX. 0.47OHM 1W (DP14G)
RP25	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RP26	AT03896M	82KOHM 1/2W RDS50 CARBON FILM RESISTOR
RP27	0700049M	RES.-CARBON FLM 1/16W 4.7K-JB
RP28	0700058M	RES.-CARBON FLM 1/16W 22K-JB
RP29	0700063M	RES.-CARBON FLM 1/16W 47K-JB
⚠ RP30	0700036M	RES.-CARBON FLM 1/16W 470-JB
RP31	AT03894M	56KOHM 1/2W RDS50 CARBON FILM RESISTOR
RP32	AT03894M	56KOHM 1/2W RDS50 CARBON FILM RESISTOR
RP33	0700054M	RES.-CARBON FLM 1/16W 10K-JB
RP34	0700052M	RES.-CARBON FLM 1/16W 6.8K-JB
RP35	0700063M	RES.-CARBON FLM 1/16W 47K-JB
RP40	0700045M	RES.-CARBON FLM 1/16W 2.2K-JB
RP41	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RP44	0700043M	RES.-CARBON FLM 1/16W 1.5K-JB
RP46	0700041M	RES.-CARBON FLM 1/16W 1.0K-JB
RS05	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS06	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS07	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS08	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS09	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS10	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS11	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS12	0790051R	RES.CHIP 1/16W 10K OHM (DP17)
RS13	0790051R	RES.CHIP 1/16W 10K OHM (DP17)
RS14	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS15	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS20	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS21	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RS22	0790028R	RES.CHIP 1/16W 220 OHM (DP17)
RS23	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RS24	0196081R	RES 1608 CHIP 1/16W 3.6KJ TAPE (DP17)
RS25	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)
RS27	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)
RS28	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)
RS29	0196081R	RES 1608 CHIP 1/16W 3.6KJ TAPE (DP17)
RS31	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)
RS32	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RS33	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RS34	0790056R	RES.CHIP 1/16W 27K OHM (DP17)
RS36	0196102R	RES.-1608CHIP 1/16W 24K-J TAPE (DP17)
RS37	0196102R	RES.-1608CHIP 1/16W 24K-J TAPE (DP17)
RS38	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS39	0196096R	RES.-1608CHIP 1/16W 13K-J TAPE (DP17)
RS40	0196096R	RES.-1608CHIP 1/16W 13K-J TAPE (DP17)
RS42	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RS43	0790055R	RES.CHIP 1/16W 22K OHM (DP17)
RS45	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)
RS47	0196087R	RES.-1608CHIP 1/16W 6.2K-J TAPE (DP17)
RS49	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RS50	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS51	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS52	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS57	0790056R	RES.CHIP 1/16W 27K OHM (DP17)
RS59	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RS60	0790056R	RES.CHIP 1/16W 27K OHM (DP17)
RS62	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RS63	0790028R	RES.CHIP 1/16W 220 OHM (DP17)
RS64	0196100R	RES.-1608CHIP 1/16W 20K-J TAPE (DP17)
RS65	0790051R	RES.CHIP 1/16W 10K OHM (DP17)
RS66	0790056R	RES.CHIP 1/16W 27K OHM (DP17)
RS67	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS68	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS69	0790056R	RES.CHIP 1/16W 27K OHM (DP17)
RS70	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS71	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS72	0790056R	RES.CHIP 1/16W 27K OHM (DP17)
RS73	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS74	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS75	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS76	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS77	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RS78	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RS79	0790047R	RES.CHIP 1/16W 5.6K OHM (DP17)
RS80	0790047R	RES.CHIP 1/16W 5.6K OHM (DP17)
RS81	0790047R	RES.CHIP 1/16W 5.6K OHM (DP17)
RS82	0790045R	RES.CHIP 1/16W 3.9K OHM (DP17)
RS83	0790028R	RES.CHIP 1/16W 220 OHM (DP17)
RS84	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RS92	0790042R	RES.CHIP 1/16W 2.2K OHM (DP17)
RS93	0790042R	RES.CHIP 1/16W 2.2K OHM (DP17)
RS94	0790042R	RES.CHIP 1/16W 2.2K OHM (DP17)
RS95	0790042R	RES.CHIP 1/16W 2.2K OHM (DP17)
RS96	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS97	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RS98	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RS99	0790064R	RES.CHIP 1/16W 100K OHM (DP17)
RSA1	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RSA2	0790033R	RES.CHIP 1/16W 470 OHM (DP17)
RSA3	0790055R	RES.CHIP 1/16W 22K OHM (DP17)
RSA4	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RSA5	0790062R	RES.CHIP 1/16W 68K OHM (DP17)	RT03	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSA6	0790062R	RES.CHIP 1/16W 68K OHM (DP17)	RT04	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSA7	AT03197S	METAL OX. 2.2OHM 1W (DP17)	RT05	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSA8	AT03197S	METAL OX. 2.2OHM 1W (DP17)	RT06	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSA9	AT03871M	1KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)	RT07	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSC1	AT03871M	1KOHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)	RT08	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSC2	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RT09	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSC3	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RT10	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSC4	0790024R	RES.CHIP 1/16W 100 OHM (DP17)	RT11	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSC5	0790039R	RES.CHIP 1/16W 1.5K OHM (DP17)	RT12	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSC6	0790032R	RES.CHIP 1/16W 390 OHM (DP17)	RT13	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSC7	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT14	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSC8	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RT15	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSC9	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RT16	0790024R	RES.CHIP 1/16W 100 OHM (DP17)
RSE1	0790024R	RES.CHIP 1/16W 100 OHM (DP17)	RT17	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)
RSE2	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RT18	0790051R	RES.CHIP 1/16W 10K OHM (DP17)
RSE4	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT19	0790051R	RES.CHIP 1/16W 10K OHM (DP17)
RSE5	0790028R	RES.CHIP 1/16W 220 OHM (DP17)	RT20	0790039R	RES.CHIP 1/16W 1.5K OHM (DP17)
RSE6	0790028R	RES.CHIP 1/16W 220 OHM (DP17)	RT21	0790039R	RES.CHIP 1/16W 1.5K OHM (DP17)
RSE7	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT22	0790039R	RES.CHIP 1/16W 1.5K OHM (DP17)
RSE8	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT23	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RSE9	0790064R	RES.CHIP 1/16W 100K OHM (DP17)	RT24	AT03849M	27.0OHM 1/2W RDS50 CARBON FILM RESISTOR (DP17)
RSF1	0790064R	RES.CHIP 1/16W 100K OHM (DP17)	RT25	0790039R	RES.CHIP 1/16W 1.5K OHM (DP17)
RSF2	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT26	0790051R	RES.CHIP 1/16W 10K OHM (DP17)
RSF3	0790064R	RES.CHIP 1/16W 100K OHM (DP17)	RT27	0790051R	RES.CHIP 1/16W 10K OHM (DP17)
RSF4	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT28	0790051R	RES.CHIP 1/16W 10K OHM (DP17)
RSF5	0790064R	RES.CHIP 1/16W 100K OHM (DP17)	RT29	0790039R	RES.CHIP 1/16W 1.5K OHM (DP17)
RSF6	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RT30	0790039R	RES.CHIP 1/16W 1.5K OHM (DP17)
RSF7	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RT32	0790043R	RES.CHIP 1/16W 2.7K OHM (DP17)
RSF8	0790028R	RES.CHIP 1/16W 220 OHM (DP17)	RT33	0196081R	RES 1608 CHIP 1/16W 3.6KJ TAPE (DP17)
RSF9	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT34	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RSH1	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT35	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RSH2	0790064R	RES.CHIP 1/16W 100K OHM (DP17)	RT36	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RSH3	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT37	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RSH4	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT38	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RSH5	0790064R	RES.CHIP 1/16W 100K OHM (DP17)	RT39	0196054R	RES 1608 CHIP 1/16W 300J TAPE (DP17)
RSH6	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT40	0196054R	RES 1608 CHIP 1/16W 300J TAPE (DP17)
RSH7	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT41	0790043R	RES.CHIP 1/16W 2.7K OHM (DP17)
RSH8	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)	RT42	0196081R	RES 1608 CHIP 1/16W 3.6KJ TAPE (DP17)
RSH9	0790024R	RES.CHIP 1/16W 100 OHM (DP17)	RT43	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RSJ1	0196039R	RES 1608 CHIP 1/16W 75J TAPE (DP17)	RT44	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RSJ2	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RT45	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RSJ3	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RT46	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RSJ4	0790051R	RES.CHIP 1/16W 10K OHM (DP17)	RT47	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RSJ5	0790028R	RES.CHIP 1/16W 220 OHM (DP17)	RT48	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RSJ6	0790028R	RES.CHIP 1/16W 220 OHM (DP17)	RT49	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)
RSJ7	0790028R	RES.CHIP 1/16W 220 OHM (DP17)	RT50	0196054R	RES 1608 CHIP 1/16W 300J TAPE (DP17)
RSJ8	0790028R	RES.CHIP 1/16W 220 OHM (DP17)	RT51	0196054R	RES 1608 CHIP 1/16W 300J TAPE (DP17)
RSJ9	0790028R	RES.CHIP 1/16W 220 OHM (DP17)	RT52	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)
RSK1	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RT54	0196091R	RES.-1608CHIP 1/16W 9.1K-J TAPE (DP17)
RSK4	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)	RT55	0790059R	RES.CHIP 1/16W 47K OHM (DP17)
RSK5	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)	RT56	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)
RSK6	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)	RT57	0790051R	RES.CHIP 1/16W 10K OHM (DP17)
RSK7	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)	RT58	0790064R	RES.CHIP 1/16W 100K OHM (DP17)
RT01	0790024R	RES.CHIP 1/16W 100 OHM (DP17)	RT59	0790046R	RES.CHIP 1/16W 4.7K OHM (DP17)
RT02	0790024R	RES.CHIP 1/16W 100 OHM (DP17)	RT61	0196091R	RES.-1608CHIP 1/16W 9.1K-J TAPE (DP17)

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RT62	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RX38	0790047R	RES.CHIP 1/16W 5.6K OHM
RT63	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RX39	0790047R	RES.CHIP 1/16W 5.6K OHM
RT64	0790051R	RES.CHIP 1/16W 10K OHM (DP17)	RX40	0790069R	RES.CHIP 1/16W 270K OHM
RT67	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)	RX41	0790069R	RES.CHIP 1/16W 270K OHM
RT68	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RX42	AQ00163R	RES.CHIP 1/16W 68 OHM TAPE
RT69	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RX43	0790037R	RES.CHIP 1/16W 1.0K OHM
RT70	0790051R	RES.CHIP 1/16W 10K OHM (DP17)	RX44	0790037R	RES.CHIP 1/16W 1.0K OHM
RT73	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 (DP17)	RX45	0790064R	RES.CHIP 1/16W 100K OHM
RT74	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RX46	0790064R	RES.CHIP 1/16W 100K OHM
RT75	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RX47	0790064R	RES.CHIP 1/16W 100K OHM
RT76	0790051R	RES.CHIP 1/16W 10K OHM (DP17)	RX48	AQ00163R	RES.CHIP 1/16W 68 OHM TAPE
RT77	0790056R	RES.CHIP 1/16W 27K OHM (DP17)	RX49	AQ00163R	RES.CHIP 1/16W 68 OHM TAPE
RT78	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RX50	0790064R	RES.CHIP 1/16W 100K OHM
RT79	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RX51	0790064R	RES.CHIP 1/16W 100K OHM
RT80	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RX52	0790037R	RES.CHIP 1/16W 1.0K OHM
RT81	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RX54	0790037R	RES.CHIP 1/16W 1.0K OHM
RT82	0790051R	RES.CHIP 1/16W 10K OHM (DP17)	RX55	0790046R	RES.CHIP 1/16W 4.7K OHM
RT83	0790056R	RES.CHIP 1/16W 27K OHM (DP17)	RX56	0790024R	RES.CHIP 1/16W 100 OHM
RT84	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RX57	0790024R	RES.CHIP 1/16W 100 OHM
RT85	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RX58	0790024R	RES.CHIP 1/16W 100 OHM
RT86	0790059R	RES.CHIP 1/16W 47K OHM (DP17)	RX59	0790024R	RES.CHIP 1/16W 100 OHM
RT87	0790037R	RES.CHIP 1/16W 1.0K OHM (DP17)	RX60	0790024R	RES.CHIP 1/16W 100 OHM
RT88	0790051R	RES.CHIP 1/16W 10K OHM (DP17)	RX61	0790024R	RES.CHIP 1/16W 100 OHM
RT89	0188099M	RES.-CARBON FLM 1/2W 4.7-JB (DP17)	RX62	0790024R	RES.CHIP 1/16W 100 OHM
RX01	0790024R	RES.CHIP 1/16W 100 OHM	RX63	0790024R	RES.CHIP 1/16W 100 OHM
RX02	0790047R	RES.CHIP 1/16W 5.6K OHM	RX64	0790024R	RES.CHIP 1/16W 100 OHM
RX03	0790047R	RES.CHIP 1/16W 5.6K OHM	RX65	0790024R	RES.CHIP 1/16W 100 OHM
RX04	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX66	0790024R	RES.CHIP 1/16W 100 OHM
RX05	0790069R	RES.CHIP 1/16W 270K OHM	RX67	0790042R	RES.CHIP 1/16W 2.2K OHM
RX06	0790069R	RES.CHIP 1/16W 270K OHM	RX68	0790024R	RES.CHIP 1/16W 100 OHM
RX07	0790024R	RES.CHIP 1/16W 100 OHM	RX69	0790037R	RES.CHIP 1/16W 1.0K OHM
RX08	0790024R	RES.CHIP 1/16W 100 OHM	RX70	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE
RX09	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX71	0790024R	RES.CHIP 1/16W 100 OHM
RX10	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX72	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE
RX11	0790037R	RES.CHIP 1/16W 1.0K OHM	RX73	0790024R	RES.CHIP 1/16W 100 OHM
RX12	0790024R	RES.CHIP 1/16W 100 OHM	RX74	0790037R	RES.CHIP 1/16W 1.0K OHM
RX13	0790047R	RES.CHIP 1/16W 5.6K OHM	RX75	0790047R	RES.CHIP 1/16W 5.6K OHM
RX14	0790047R	RES.CHIP 1/16W 5.6K OHM	RX76	0790047R	RES.CHIP 1/16W 5.6K OHM
RX15	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX77	0790037R	RES.CHIP 1/16W 1.0K OHM
RX16	0790069R	RES.CHIP 1/16W 270K OHM	RX78	0790024R	RES.CHIP 1/16W 100 OHM
RX17	0790069R	RES.CHIP 1/16W 270K OHM	RX79	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE
RX18	0790024R	RES.CHIP 1/16W 100 OHM	RX80	0790024R	RES.CHIP 1/16W 100 OHM
RX19	0790024R	RES.CHIP 1/16W 100 OHM	RX81	0790024R	RES.CHIP 1/16W 100 OHM
RX20	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX82	0790033R	RES.CHIP 1/16W 470 OHM
RX21	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX83	0790033R	RES.CHIP 1/16W 470 OHM
RX22	0790037R	RES.CHIP 1/16W 1.0K OHM	RX84	AQ00185R	RES.CHIP 1/16W 470 OHM TAPE
RX23	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX85	AQ00176R	RES.CHIP 1/16W 220 OHM TAPE
RX24	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX86	AQ00176R	RES.CHIP 1/16W 220 OHM TAPE
RX25	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX87	0790024R	RES.CHIP 1/16W 100 OHM
RX26	0790047R	RES.CHIP 1/16W 5.6K OHM	RX88	0790024R	RES.CHIP 1/16W 100 OHM
RX27	0790047R	RES.CHIP 1/16W 5.6K OHM	RX89	0790024R	RES.CHIP 1/16W 100 OHM
RX28	0790069R	RES.CHIP 1/16W 270K OHM	RX90	0790046R	RES.CHIP 1/16W 4.7K OHM
RX29	0790069R	RES.CHIP 1/16W 270K OHM	RX91	0790043R	RES.CHIP 1/16W 2.7K OHM
RX35	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX92	0790044R	RES.CHIP 1/16W 3.3K OHM
RX36	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX94	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RX37	AQ00164R	RES.CHIP 1/16W 75 OHM TAPE	RX95	0790051R	RES.CHIP 1/16W 10K OHM

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SYMBOL NO.	PART NO.	PART DESCRIPTION	SYMBOL NO.	PART NO.	PART DESCRIPTION
RX96	0790051R	RES.CHIP 1/16W 10K OHM	RY57	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY01	0790043R	RES.CHIP 1/16W 2.7K OHM	RY58	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY02	0790043R	RES.CHIP 1/16W 2.7K OHM	RY59	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY03	0790043R	RES.CHIP 1/16W 2.7K OHM	RY60	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY04	0790024R	RES.CHIP 1/16W 100 OHM	RY61	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY05	0790024R	RES.CHIP 1/16W 100 OHM	RY62	0790037R	RES.CHIP 1/16W 1.0K OHM
RY06	0196104R	RES 1608 CHIP 1/16W 30KJ TAPE	RY64	0790037R	RES.CHIP 1/16W 1.0K OHM
RY07	0196079R	RES.-1608CHIP 1/16W 3.0K-J TAPE	RY65	AQ00221R	RES.CHIP 1/16W 10K OHM TAPE
RY08	0196056R	RES.-1608CHIP 1/16W 360-J TAPE	RY66	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY09	0790024R	RES.CHIP 1/16W 100 OHM	RY67	0790024R	RES.CHIP 1/16W 100 OHM
RY10	0790024R	RES.CHIP 1/16W 100 OHM	RY68	0790024R	RES.CHIP 1/16W 100 OHM
RY11	0790024R	RES.CHIP 1/16W 100 OHM	RY69	0790024R	RES.CHIP 1/16W 100 OHM
RY12	0790034R	RES.CHIP 1/16W 560 OHM	RY70	0790024R	RES.CHIP 1/16W 100 OHM
RY13	0790034R	RES.CHIP 1/16W 560 OHM	RY71	0790037R	RES.CHIP 1/16W 1.0K OHM
RY14	0790034R	RES.CHIP 1/16W 560 OHM	RY72	0790037R	RES.CHIP 1/16W 1.0K OHM
RY15	0790034R	RES.CHIP 1/16W 560 OHM	RY73	0790037R	RES.CHIP 1/16W 1.0K OHM
RY16	0790034R	RES.CHIP 1/16W 560 OHM	RY74	0790024R	RES.CHIP 1/16W 100 OHM
RY17	0790034R	RES.CHIP 1/16W 560 OHM	RY75	0790024R	RES.CHIP 1/16W 100 OHM
RY18	0790034R	RES.CHIP 1/16W 560 OHM	RY76	0790024R	RES.CHIP 1/16W 100 OHM
RY19	0790034R	RES.CHIP 1/16W 560 OHM	RY77	0790024R	RES.CHIP 1/16W 100 OHM
RY20	0790034R	RES.CHIP 1/16W 560 OHM	RY78	0790024R	RES.CHIP 1/16W 100 OHM
RY21	0790024R	RES.CHIP 1/16W 100 OHM	RY79	0790037R	RES.CHIP 1/16W 1.0K OHM
RY22	0790024R	RES.CHIP 1/16W 100 OHM	RY80	0790037R	RES.CHIP 1/16W 1.0K OHM
RY23	0790024R	RES.CHIP 1/16W 100 OHM	RY81	0790037R	RES.CHIP 1/16W 1.0K OHM
RY24	0790037R	RES.CHIP 1/16W 1.0K OHM	RY82	0790024R	RES.CHIP 1/16W 100 OHM
RY25	0790037R	RES.CHIP 1/16W 1.0K OHM	RY83	0790024R	RES.CHIP 1/16W 100 OHM
RY26	0790037R	RES.CHIP 1/16W 1.0K OHM	RY84	0790024R	RES.CHIP 1/16W 100 OHM
RY27	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY85	0790024R	RES.CHIP 1/16W 100 OHM
RY28	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY86	0790024R	RES.CHIP 1/16W 100 OHM
RY29	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY87	0790024R	RES.CHIP 1/16W 100 OHM
RY30	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY88	0790024R	RES.CHIP 1/16W 100 OHM
RY31	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY89	0790024R	RES.CHIP 1/16W 100 OHM
RY32	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY90	0790024R	RES.CHIP 1/16W 100 OHM
RY33	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY91	0790024R	RES.CHIP 1/16W 100 OHM
RY34	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY92	0790037R	RES.CHIP 1/16W 1.0K OHM
RY35	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY93	0790037R	RES.CHIP 1/16W 1.0K OHM
RY36	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY94	0790037R	RES.CHIP 1/16W 1.0K OHM
RY37	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY95	0790024R	RES.CHIP 1/16W 100 OHM
RY38	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY96	0790024R	RES.CHIP 1/16W 100 OHM
RY39	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY97	0790024R	RES.CHIP 1/16W 100 OHM
RY40	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RY98	0790041R	RES.CHIP 1/16W 1.8K OHM
RY41	0790037R	RES.CHIP 1/16W 1.0K OHM	RY99	0790041R	RES.CHIP 1/16W 1.8K OHM
RY42	0790037R	RES.CHIP 1/16W 1.0K OHM	RZ01	0790041R	RES.CHIP 1/16W 1.8K OHM
RY44	AQ00221R	RES.CHIP 1/16W 10K OHM TAPE	RZ02	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY45	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ03	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY46	0790024R	RES.CHIP 1/16W 100 OHM	RZ04	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY47	0790024R	RES.CHIP 1/16W 100 OHM	RZ05	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY48	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ06	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY49	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ07	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY50	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ08	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY51	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ09	0790024R	RES.CHIP 1/16W 100 OHM
RY52	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ10	0790024R	RES.CHIP 1/16W 100 OHM
RY53	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ11	0790024R	RES.CHIP 1/16W 100 OHM
RY54	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ12	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY55	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ13	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RY56	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RZ15	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608

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SYMBOL NO.	PART NO.	PART DESCRIPTION
RZ17	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RZ18	0790059R	RES.CHIP 1/16W 47K OHM
RZ19	0790059R	RES.CHIP 1/16W 47K OHM
RZ20	0790037R	RES.CHIP 1/16W 1.0K OHM
RZ21	0790051R	RES.CHIP 1/16W 10K OHM
RZ22	0790064R	RES.CHIP 1/16W 100K OHM
RZ23	0790056R	RES.CHIP 1/16W 27K OHM
RZ24	0790044R	RES.CHIP 1/16W 3.3K OHM
RZ25	0790051R	RES.CHIP 1/16W 10K OHM
RZ27	0790051R	RES.CHIP 1/16W 10K OHM
RZ33	0790024R	RES.CHIP 1/16W 100 OHM
RZ37	0790037R	RES.CHIP 1/16W 1.0K OHM
RZ39	0790037R	RES.CHIP 1/16W 1.0K OHM
RZ41	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RZ43	0790055R	RES.CHIP 1/16W 22K OHM
RZ44	0790024R	RES.CHIP 1/16W 100 OHM
RZ45	0790024R	RES.CHIP 1/16W 100 OHM
RZ46	0790042R	RES.CHIP 1/16W 2.2K OHM
RZ47	0790044R	RES.CHIP 1/16W 3.3K OHM
RZ48	0790044R	RES.CHIP 1/16W 3.3K OHM
RZ49	0790039R	RES.CHIP 1/16W 1.5K OHM
RZ50	0790039R	RES.CHIP 1/16W 1.5K OHM
RZ51	0790033R	RES.CHIP 1/16W 470 OHM
RZ52	0790033R	RES.CHIP 1/16W 470 OHM
RZ53	0790039R	RES.CHIP 1/16W 1.5K OHM
RZ54	0790033R	RES.CHIP 1/16W 470 OHM
RZ55	0790039R	RES.CHIP 1/16W 1.5K OHM
RZ56	0790033R	RES.CHIP 1/16W 470 OHM
RZ57	0790053R	RES.CHIP 1/16W 15K OHM
RZ58	0790028R	RES.CHIP 1/16W 220 OHM
RZ59	0790063R	RES.CHIP 1/16W 82K OHM
RZ60	0790037R	RES.CHIP 1/16W 1.0K OHM
RZ61	0790028R	RES.CHIP 1/16W 220 OHM
RZ62	0790063R	RES.CHIP 1/16W 82K OHM
RZ63	0790037R	RES.CHIP 1/16W 1.0K OHM
RZ64	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RZ65	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RZ66	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RZ67	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
		SWITCHES
SK01	FE10332R	SWITCH (TYPE SWP01N01TKSH0636BT)
SM01	FE10402R	PUSH SWITCH SKQNAB
SM02	FE10402R	PUSH SWITCH SKQNAB
SM03	FE10402R	PUSH SWITCH SKQNAB
SM04	FE10402R	PUSH SWITCH SKQNAB
SM05	FE10402R	PUSH SWITCH SKQNAB
SM06	FE10402R	PUSH SWITCH SKQNAB
SM07	FE10402R	PUSH SWITCH SKQNAB
SM09	FE10402R	PUSH SWITCH SKQNAB
		TRANSFORMERS
⚠ T701	BZ03982	CHOKE TRANS.-DP1X (HOT)
⚠ T702	BZ03061	DRIVE TRANS.-DJ81
⚠ T901	BT01961	SWITCHING TRANSFORMER (DP14G)

SYMBOL NO.	PART NO.	PART DESCRIPTION
⚠ T901	BT02011	S/W TRANS EE42F16US-DP17 (DP17)
⚠ TH01	BW00635	FBT-HFL1735YP(DP1X)
⚠ TP91	BT01951	SWITCHING TRANSFORMER
		COMPOUND COMPONENTS
UC01	CS00493	FC UNIT (HC5613)
UC01	CS00553	FLEX CONTROLLER UNIT HC5613T
UKDG	CS00452	DIGITAL CONVERGENCE UNIT HC2152 (DP17)
UKDG	CS00453	DIGITAL CONVERGENCE UNIT HC2153 (DP14G)
		PRTs
V1B	DE01316	CRT P16LFT00 BMB EU (53/61SWX)
V1B	DE01913	CRT P16LTG00 BMB (43UWX)
V1B	DE01993	CRT P16LSG03 BMB (53/61UWX)
V1G	DE01319	CRT P16LFT00 HHA LU (53/61SWX)
V1G	DE01912	CRT P16LTG00 HHA (43UWX)
V1G	DE01992	CRT P16LSG03 HKA (53/61UWX)
V1R	DE01318	CRT P16LFT00 RFA LU (53/61SWX)
V1R	DE01911	CRT P16LTG00 RFA (43UWX)
V1R	DE01991	CRT P16LSG03 RJA (53/61UWX)
		CRYSTALS
X001	2163971	CERAMIC FILTER 4MHZ
X301	2168601	VFL-HC49U/S 20.00MHZ
X302	BE00341	3.58MHZ BAND PASS LC FILTER
X303	BE00351	6.0MHZ LOW PASS LC FILTER
X551	2791501	CRYSTAL HC-49/U
X552	2168771	X'TAL(TYPE CSB503F30)
XC01	2168771	X'TAL(TYPE CSB503F30)
XS01	BP01071	RESONATOR FOR AUDIO (DP17)
XX01	2791501	CRYSTAL HC-49/U
XX02	2168771	X'TAL(TYPE CSB503F30)
XX03	2163971	CERAMIC FILTER 4MHZ
XX04	2163971	CERAMIC FILTER 4MHZ
		MISCELLANEOUS
#	UE08702	DP14G POWER DEFLECTION B.ASY
#	UE08706	DP17 POWER DEFLECTION B.ASY
#	UE07781	CPD-LTG 43 LC B.ASY(R) (43UWX)
#	UE07782	CPD-LTG 43 LC B.ASY(G) (43UWX)
#	UE07783	CPD-LTG 43 LC B.ASY(B) (43UWX)
#	QG00817	53" BACK COVER ASSY (53SWX)
#	QG01321	43FWX10B REAR COVER ASY (43UWX)
#	QG00834	60" BACK COVER ASSY 1ST (61UWX)
#	NT02141	53SWX10B FRAME ASY
#	NT02142	61SWX10B FRAME ASY
#	NT02143	53UWX10B FRAME ASY
#	NT02144	61UWX10B FRAME ASY
#	NT02145	53SWX12B FRAME ASY
#	NT02146	61SWX12B FRAME ASY
#	KR01072	61SWX01W SCREEN ASY
#	KR01075	53SWX10B SCREEN ASY
#	KR01464	43UWX10B SCREEN ASY
#	KR01466	53UWX10B SCREEN ASY
#	KR01467	61UWX10B SCREEN ASY
# 10	QD21381	43" WIDE BACK COVER (43UWX)

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SYMBOL NO.	PART NO.	PART DESCRIPTION
# 10	QD21421	43" WIDE FRAME A (43UWX)
# 20	KS02027	01' 43" WIDE MIRROR GLASS (43UWX)
# 30	NA53251	43W UPPER MIRROR HOLDER (43UWX)
# 35	NA53261	43W LOWER MIRROR HOLDER (43UWX)
# 40	NA52043	43 CENTRAL METAL MIRROR (43UWX)
# 45	NA52044	43 CENTRAL METAL MIRROR (43UWX)
#002	UE08652	DP14G MAIN CHASSIS ASY
#002	UE08662	DP14G SIGNAL B.ASY
#004	QG00814	REAR COVER ASS'Y (53UWX)
#005	NA11706	SBA LENS CRT METAL (BLACK)
#005	NA52171	CPD LENS CRT METAL
#006	UE08656	DP17 MAIN CHASSIS ASY
#006	UE08666	DP17 SIGNAL B.ASY
#011	UE08801	SBB-LFT* # LC B.ASY(R) (53SWX)
#011	KR01075	53SWX10B SCREEN ASY
#011	KR01464	43FUX10B SCREEN ASY
#012	UE08802	SBB-LFT* # LC B.ASY(G) (53SWX)
#012	KR01072	61SWX01W SCREEN ASY
#013	UE08803	SBB-LFT* # LC B.ASY(B) (53SWX)
#013	KR01466	53UWX10B SCREEN ASY
#014	UE07901	SBB-LFT # LC B.ASY(R) (61SWX)
#014	KR01467	61UWX10B SCREEN ASY
#015	UE07902	SBB-LFT # LC B.ASY(G) (61SWX)
#015	NJ05481	CATCH HOLDER HP/DP 1
#016	UE07903	SBB-LFT # LC B.ASY(B) (61SWX)
#018	NA47422	43" GRIP METAL (UWX)
#021	QG00818	53UWX BACK COVER ASSY
#021	QG01321	43UWX10B REAR COVER ASY
#021	QG00818	53UWX BACK COVER ASSY
#022	KS00113	MIRROR ASSY 61"
#031	KS00113	MIRROR ASSY 61" (UWX)
#031	UE07781	CPD-LTG 43 LC B.ASY(R) (43UWX)
#032	UE07782	CPD-LTG 43 LC B.ASY(G) (43UWX)
#033	UE07783	CPD-LTG 43 LC B.ASY(B) (43UWX)
#034	UE08951	CPC-LFM 53 LC B.ASY(R) (53UWX)
#035	UE08952	CPC-LFM 53 LC B.ASY(G) (53UWX)
#036	UE08953	CPC-LFM 53 LC B.ASY(B) (53UWX)
#037	UE09064	CPD-LSG 60 LC B.ASY(R) (61UWX)
#038	UE09065	CPD-LSG 60 LC B.ASY(G) (61UWX)
#039	UE09066	CPD-LSG 60 LC B.ASY(B) (61UWX)
#041	NT02141	53SWX10B FRAME ASY
#041	NT02151	43UWX10B FRAME ASY
#041	NT02143	53UWX10B FRAME ASY
#041	UE08722	DP14G CONTROL B.ASY (61UWX)
#042	NT02142	61SWX10B FRAME ASY
#042	NT02144	61UWX10B FRAME ASY
#051	QD21501	53SWX10B CABINET ASY
#051	QD21521	53UWX10B CABINET ASSY
#052	QD21502	61SWX10B CABINET ASY
#052	QD21522	CABINET ASSY 61UWX10B
#05A	NA11706	SBA LENS CRT METAL (BLACK)
#10	PH09723	53" TOP FRAME PAINTED (53SWX/53UWX)
#10C	QD04113	60" BACK COVER (61UWX)
#110	33200073	BACK CENTER BAR 60"
#110	NJ04211	LONG GRIP (53SWX)
#110	NJ04211	LONG GRIP (61UWX)
#111	33010411	BARRIER BOARD 43" (UWX)
#111	NJ04231	SIDE GRIP (L) (61UWX)
#111A	NA49723	BARRIER SUPPORT METAL (RT) (UWX)
#111B	NA49724	BARRIER SUPPORT METAL (LT) (UWX)
#112	55020084	FRONT BOARD ASSY (UWX)
#112	55020083	FRONT DOOR ASSY 53" (UWX)
#112	NJ04232	SIDE GRIP (R) (61UWX)
#113	33020085	BARRIER BOARD ASSY (UWX)
#113	NJ04233	SIDE GRIP (L) 53" (53SWX)
#114	55020090	FRONT BOARD ASSY (UWX)
#114	NJ04234	SIDE GRIP (R) 53" (53SWX)
#120B	PH30852	CONTROL PANEL ASSY (UWX)
#120C	KS00166	MIRROR GLASS (61SWX)
#120F	PH30851	CONTROL PANEL ASSY (SWX)
#130B	PH09751	CONTROL DOOR (SWX/UWX)
#131	PH09761	COSMETIC DOOR (SWX/UWX)
#145	PC04891	POWER BUTTON (SWX/UWX)
#15	H312171	REAR COVER AP9X 53" (53UWX/53SWX)
#15	PH09733	61" TOP FRAME PAINTED (61SWX/61UWX)
#15	PH09741	CONTROL PANEL (SWX/UWX)
#151	PH09791	POWER LENS (SWX/UWX)
#154	PH09781	R/C LENS (SWX/UWX)
#180	55050012	MIRROR BOARD ASSY (61SWX)
#20	NA11681	MIRROR METAL AP7 A (53UWX)
#20	PH09724	53" BOTTOM FRAME PAINTED (53SWX/53UWX)
#25	NA53851	43W UPPER COVER METAL (43UWX)
#25	PH09734	61" BOTTOM FRAME PAINTED (61SWX/61UWX)
#250	PH09671	53" SPEAKER GRILL ASSY (SWX)
#260	PH09691	61" SPEAKER GRILL ASSY (SWX)
#299	NT02061	53SWX BOTTOM RAIL
#299	NT02061	53UWX BOTTOM RAIL
#30	QD21181	53" VERTICAL EXTRUSION (53SWX/53UWX)
#300	NT02071	61SWX BOTTOM RAIL
#300	NT02071	61UWX BOTTOM RAIL
#35	NA11691	MIRROR METAL AP7 B (53UWX)
#35	QD21182	61" VERTICAL EXTRUSION (61SWX/61UWX)
#40	NA51521	53" SCREEN METAL H (53SWX/53UWX)
#415A	PH30661	43UWX SPEAKER GRILLE ASSY
#415A	PH09672	53UWX SPEAKER GRILLE ASSY
#416	PH09682	61UWX SPEAKER FRAME
#416A	PH09692	61UWX SPEAKER GRILLE ASSY
#430	H512286	LOWER REAR BOARD 53" (SWX)
#431	H512277	LOWER REAR BOARD 61" (SWX)
#432	H512278	LOWER REAR BOARD 43" (UWX)
#432	H512286	LOWER REAR BOARD 53" (UWX)
#433	H512277	LOWER REAR BOARD 61" (UWX)
#45	NA51531	61" SCREEN METAL H (61SWX/61UWX)
#500	LQD2151	43UWX10B CABINET ASY
#501	12010009	53UWX10B CORE BLOCK
#502	12010011	61UWX10B CORE BLOCK
#701	33200081	UPPER BACK BAR (UWX)
#703	33200085	LOWER BACK BAR (UWX)
#80	KS00163	MIRROR GLASS (61UWX)
#801	33100115	UPPER BACK COVER (UWX)
#803	33100114	MIDDLE BACK COVER (UWX)
#83	KS02021	99 53" MODELS MIRROR (53UWX/53SWX)

PRODUCT SERVICE NOTE: Components marked with a ⚠ have special characteristics important to sefety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don t degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	PART DESCRIPTION
A	JT22012	DP14G SIGNAL PWB ASY
A	JT22016	DP17 SIGNAL PWB ASY
A	JT22022	DP14G TERMINAL PWB ASY
A	JT22026	DP17 TERMINAL PWB ASY
A	JT22027	PP15 TERMINAL PWB ASY
A	JT22032	DP14G DEFLECTION PWB ASY
A	JT22036	DP17 DEFLECTION PWB ASY
A	JT22042	DP14G POWER SUPPLY PWB ASY
A	JT22046	DP17 POWER SUPPLY PWB ASY
A	JT22062	DP14G CPT PWB ASY
A	JT22066	DP17 CPT PWB ASY
A	JT22082	DP14G CONTROL PWB ASY
A	JT22083	DP17 CONTROL PWB ASY
A011	UE08646	DP17 CHASSIS ASY
A012	UE08662	DP14G SIGNAL B.ASY
A012	JT22012	DP14G SIGNAL PWB ASY
A012	JT22032	DP14G DEFLECTION PWB ASY
A012	JT22082	DP14G CONTROL PWB ASY (UWX)
A013	JT22083	DP17 CONTROL PWB ASY (SWX)
A016	UE08666	DP17 SIGNAL B.ASY
A016	JT22016	DP17 SIGNAL PWB ASY
A016	JT22036	DP17 DEFLECTION PWB ASY
A021	JT22066	DP17 CPT PWB ASY
A022	UE08702	DP14G POWER DEFLECTION B.ASY
A022	JT22022	DP14G TERMINAL PWB ASY
A022	JT22042	DP14G POWER SUPPLY PWB ASY
A026	UE08706	DP17 POWER DEFLECTION B.ASY
A026	JT22026	DP17 TERMINAL PWB ASY
A026	JT22046	DP17 POWER SUPPLY PWB ASY
A031	UE08726	DP17 CONTROL B.ASY (53SWX)
A032	JT22052	DP14G CONV.FOCUS PWB ASY
A032	UE09661	61SWX12B CONTROL B.ASY
A036	JT22056	DP17 CONV.FOCUS PWB ASY
E007	2169512	CLAMP NOISE FILTER ZCAT3035
E11B	3811322	DY INSULATOR (53/61SWX)
E11G	3811322	DY INSULATOR (53/61SWX)
E11R	3811322	DY INSULATOR (53/61SWX)
⚠ E12B	BY01221	DY-36.5 .48/2.5 2H S (53/61SWX)
⚠ E12B	BY01551	DY-V80-7SS(0.61)L T (43UWX)
⚠ E12B	BY01661	DY-V80-7SS(0.61)L S (53/61UWX)
⚠ E12G	BY01221	DY-36.5 .48/2.5 2H S (53/61SWX)
⚠ E12G	BY01551	DY-V80-7SS(0.61)L T (43UWX)
⚠ E12G	BY01661	DY-V80-7SS(0.61)L S (53/61UWX)
⚠ E12R	BY01221	DY-36.5 .48/2.5 2H S (53/61SWX)
⚠ E12R	BY01551	DY-V80-7SS(0.61)L T (43UWX)
⚠ E12R	BY01661	DY-V80-7SS(0.61)L S (53/61UWX)
⚠ E801	EY00601	CRT SOCKET (TYPE HPS0630-010300) (DP17)
⚠ E801	EY00941	CRT-SOCKET HPS1600-016409 (DP14G)
⚠ E851	EY00601	CRT SOCKET (TYPE HPS0630-010300) (DP17)
⚠ E851	EY00941	CRT-SOCKET HPS1600-016409 (DP14G)
⚠ E8A1	EY00601	CRT SOCKET (TYPE HPS0630-010300) (DP17)
⚠ E8A1	EY00941	CRT-SOCKET HPS1600-016409 (DP14G)
EAS0	FT00011	SOLAR BATTERY(AM3011)
EAS1	FT00011	SOLAR BATTERY(AM3011)
EAS2	FT00011	SOLAR BATTERY(AM3011)
EAS3	FT00011	SOLAR BATTERY(AM3011)
EAS4	FT00011	SOLAR BATTERY(AM3011)
EAS5	FT00011	SOLAR BATTERY(AM3011)
EAS6	FT00011	SOLAR BATTERY(AM3011)
EAS7	FT00011	SOLAR BATTERY(AM3011)
HT02	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT03	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT04	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT05	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT06	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT07	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT08	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT09	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT10	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT11	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT12	BK00191R	CERAMIC FILTER NFM2012K03F506T1 (DP17)
HT13	BE00233R	LC FILTER ACH3218-221-T (DP17)
HT14	BE00233R	LC FILTER ACH3218-221-T (DP17)
N131	NA02922	CPC LENS FIX METAL (43UWX)
N131	NA02922	CPC LENS FIX METAL (53/61UWX)
N134	4491974	PRT METAL (53/61SWX)
N134	4491974	PRT METAL (43UWX)
N134	4491974	PRT METAL (53/61UWX)
N200B	KQ00732K	SBB LENS SASS B (53/61SWX)
N200B	KQ00161K	LENS SASS CPC B (53UWX)
N200B	KQ00811	CPD38 LENS AB ASS'Y (43/61UWX)
N200G	KQ00731K	SBB LENS SASS RG (53/61SWX)
N200G	KQ00166K	LENS SASS CPC RG4 (53UWX)
N200G	KQ00811	CPD38 LENS AB ASS'Y (43/61UWX)
N200R	KQ00731K	SBB LENS SASS RG (53/61SWX)
N200R	KQ00166K	LENS SASS CPC RG4 (53UWX)
N200R	KQ00811	CPD38 LENS AB ASS'Y (43/61UWX)
N203B	KQ00431K	SBB-1 LENS (W) (53/61SWX)
N203B	KQ00821	DELTA 38 C-ELEMENT B (43UWX)
N203B	KQ00821	DELTA 38 C-ELEMENT B (53/61UWX)
N203G	KQ00434K	SBB-1 LENS(G2) (53/61SWX)
N203G	KQ00822	DELTA 38 C-ELEMENT G (43UWX)
N203G	KQ00822	DELTA 38 C-ELEMENT G (53/61UWX)
N203R	KQ00435K	SBB-1 LENS(R2) (53/61SWX)
N203R	KQ00823	DELTA 38 C-ELEMENT R (43UWX)
N203R	KQ00823	DELTA 38 C-ELEMENT R (53/61UWX)
N510B	KR00987	FRONT SHEET (61SWX)
N510D	KR02012	FRONT SHEET (43UWX)
N510E	KR00988	FRONT SHEET (53SWX)
N510F	KR02011	FRONT SHEET (53UWX)
N510G	KR02016	FRONT SHEET (61UWX)
N520B	KR00993	FRESNEL SHEET (61SWX) PMMA
N520D	KR01658	FRESNEL SHEET (43UWX)
N520E	KR01651	FRESNEL SHEET (53SWX)
N520F	KR01652	FRESNEL SHEET (53UWX)
N520G	KR01657	FRESNEL SHEET (61UWX)
N530B	KR01577	ULTRASHIELD (61SWX)
N530D	KR02072	ULTRA SHIELD (43UWX)
N530E	KR01578	U.SHIELD 53W RDG (53SWX)
N530F	KR01578	U.SHIELD (53UWX)
N530G	KR01577	ULTRASHIELD (61UWX)

Quick Reference Parts List

NO.	CIR. NO.	P#	DESCRIPTION	FUNCTION	PWB ASSEMBLY
1	I001	CP07166U	MN102HS1KHB	TV u-com "HZ"	SIGNAL (DP14G)
2	I001	CP07169U	MN102HS1KHC	TV u-com "HC"	SIGNAL (DP17)
3	I002	CP06941R	PST9941	RESET IC (+3.3V)	SIGNAL
4	I003	CK35894R	CAT24WC32J1	E2PROM	SIGNAL
5	I004	CK09541R	HD74HCT245T	3.3V to 5.0V BUFFER	SIGNAL
6	I005	CK31992R	BU4053BCF-E2	MAIN/SUB SELECTOR	SIGNAL
7	I006	CK31071R	CXA1875AM	EXT DAC1	SIGNAL
8	I007	CK31071R	CXA1875AM	EXT DAC2	SIGNAL
9	I301	CK09013U	UPD64082GF-3BA	3D Y/C SEP.	SIGNAL
19	I302	CK06097R	PST9127NR	RESET IC FOR I301	SIGNAL
11	I303	CK35321R	MSM514265E-60JS	4M DRAM FOR I301	SIGNAL
12	I501	CK07923U	TA1270BF	MAIN VIDEO/CHROMA	SIGNAL
13	I502	CK35501R	NJM2284M-TE1	VIDEO SWITCH	SIGNAL
14	I503	CK01172R	HD74HC221FP-TR	YS PULSE GENERATOR	SIGNAL
15	IC01	CP07281U	TA1316AN	RGB PRO./DEF CONT.	SIGNAL
16	IC02	CP07611	NJM7805FA	SW +5V REG	SIGNAL
17	EC03	CP04232	BA033T	SW +3.3V REG	SIGNAL
18	IC04	CP06581U	LF25CV	SW +2.5V REG	SIGNAL
19	IJ01	20054751	TA8200AH	FRONT AUDIO OUT	SIGNAL
20	IJ02	2004751	TA8200AH	CENTER AUDIO OUT	SIGNAL
21	IJ03	CP02601	AN5285K	PERFECT VOLUME	SIGNAL
22	IX01	CK30941U	CXA2069Q	A/V SLECTOR	TERMINAL
23	IX02	CW00022	GUL-337KNT	2L COMB FOR SUB	TERMINAL
24	IX03	CK07923U	TA1270BF	VIDEO/CHROMA FOR SUB	TERMINAL
25	IX04	CK35371U	CXA2141Q	YPBYR SEL. FOR MAIN	TERMINAL
26	IX05	CK35371U	CXA2141Q	YPBYB SEL. FOR SUB	TERMINAL
27	IX06	CK31992R	BU4053BCF-E2	HOR. SYNC SEL.	TERMINAL
28	IX07	CK31992R	BU4053BCF-E2	VER. SYNC SEL.	TERMINAL
29	IX08	2015452R	HD74HC04FPEL	INVERTER	TERMINAL
30	IX09	CK011Y2R	HD74HC221FP-TR	YS PULSE GENERATOR	TERMINAL
31	I601	CP06891	TDA8174A	VER DEF OUPUT	DEFLECTION
32	I701	2362606	NJM4558D	GAIN AMP	DEFLECTION
33	IH01	CP07091	M62501P	HIGH VOLTAGE CONT	DEFLECTION
34	IP01	CZ00865	STR-F6629B (LF1351)	SWITCHING REGULATOR	DEFLECTION
35	IP02	CP05431	TLP621 (D4-GRL-LF2)	OPT. ISOLATOR	DEFLECTION
36	IP03	2381343	SE115N	+8 REGULATOR IC	DEFLECTION
37	IP04	2004665F	PQ09RF2B	+9V REGULATOR	DEFLECTION
38	IP05	2004666F	PQ05RF2B	+5V REGULATOR	DEFLECTION

Quick Reference Parts List (Cont.)

NO.	CIR. NO.	P#	DESCRIPTION	FUNCTION	PWB ASSEMBLY
39	IP06	CP05141	PQ6RD083	+6.3V REGULATOR	DEFLECTION
40	I901	CP07821U	STR-G6632	SWITCHING REGULATOR	POWER (DP14G)
41	I901	CP07822U	STR-G6624	SWITCHING REGULATOR	POWER (DP17)
42	I902	CP05431	TLP621(D4-GRL-LF2)	OPTICAL ISOLATOR	POWER
43	I903	CP05431	TLP621(D4-GRL-LF2)	OPTICAL ISOLATOR	POWER
44	I904	CP05431	TLP621(D4-GRL-LF2)	OPTICAL ISOLATOR	POWER
45	I906	CP07614	NJM7809FA	_+9V REGULATOR	POWER
46	IK01	CP07611	NJM7805FA	+5V REGULATOR	CONV./FOCUS
47	IK02	CP01631R	PST9142-T	RESET IC FOR DCU	CONV./FOCUS
48	IK04	CZ00431	STK392-110	CONV. AMP.	CONV./FOCUS
49	IK05	CZ00431	STK392-110	CONV. AMP.	CONV./FOCUS
50	IA01	CK35262R	NJW1131AM	VOLUME CONT. W/ BBE	TRUS/SRS (DP14G)
51	IA02	CK35451R	NJM2198M	SRS	TRUS/SRS (DP14G)
52	IS02	CK31071R	CXA1875AM	EXT DAC 2	SURROUND (DP17)
53	IS03	CK35291R	NJM2043M-TE1	GAIN AMP	SURROUND (DP17)
54	IS04	CK35291R	NJM2043M-TE1	GAIN AMP	SURROUND (DP17)
55	IS05	CK35291R	NJM2043M-TE1	GAIN AMP	SURROUND (DP17)
56	IS06	CK35351R	M62446FP	6 CH VOLUME CONT.	SURROUND (DP17)
57	IS07	CK35281R	NJM2043M-TE1	BUFFER	SURROUND (DP17)
58	IS08	CK35281R	NJM2043M-TE1	BUFFER	SURROUND (DP17)
59	IS09	CK35291R	NJM2043M-TE1	BUFFER	SURROUND (DP17)
60	IS10	CK3536R	M62449FP	GRAPHIC EQ	SURROUND (DP17)
61	IS11	CK35291R	NJM2043M-TE1	GAIN AMP	SURROUND (DP17)
62	IS12	CK35291R	NJM2043M-TE1	GAIN AMP	SURROUND (DP17)
63	IS13	CP07611	NJM7805FA	+5V REGULATOR	SURROUND (DP17)
64	IS15	2004751	TA8200AH	REAR AUDIO OUT	SURROUND (DP17)
65	IS16	2015762R	HD74HC151FPEL	MULTILEXER	SURROUND (DP17)
66	IS17	CK34031R	TC74HCU04AF	INVERTER	SURROUND (DP17)
67	IT01	CK09541R	HD7RHCT245T	3.3 to 5V BUFFER	SURROUND (DP17)
68	IT02	CK33841U	ZR38650	DSP	SURROUND (DP17)
69	IT03	CK33852R	AT27C040-12RC-DP1	ROM FOR DSP	SURROUND (DP17)
70	IT04	CK34041R	TC7SET04F	INVERTER	SURROUND (DP17)
71	IT05	CK33861U	IS61C3215-15T	S RAM	SURROUND (DP17)
72	IT06	CK33861U	IS61C3215-15T	S RAM	SURROUND (DP17)
73	IT07	CK33872U	AK4527BVQ	CODEC	SURROUND (DP17)
74	IT10	CK35281R	NJM2043M-TE1	GAIN AMP	SURROUND (DP17)
75	IT12	CK35281R	NJM2043M-TE1	GAIN AMP	SURROUND (DP17)
76	IT13	CZ00671R	BA033FP-E2	+3.3V REGULATOR	SURROUND (DP17)
77	IT14	CZ006712R	BA05FP-E2	+5.0V REGULATOR	SURROUND (DP17)
78	EANT	HP00771	ANT SW BOX	ANT SW BOX	MAIN CHASSIS
79	U501	HC00521	TMYH4-004A	1st TUNER W/MTS	SIGNAL (DP14G)
80	U502	HC00531	TMYH4-006A	2nd TUNER	SIGNAL (DP14G)
81	U501	HC00491	V0-A30FT	1ST TUNER W/MTS	SIGNAL (DP17)
82	U502	HC00501	V0-A30FT	1ST TUNER W/MTS	SIGNAL (DP17)
83	UC01	CS00493	HC5613	FLEX CONTROLLER	SIGNAL
84	UKDG	CS00453	HC2153	DCU (MAGIC-S/9P)	CONV./FOCUS
85	UKDG	CS00452	HC2142	DCU (MAGIC2)	CONV./FOCUS
86	HM01	CZ00833	GP1U281R	I/R RECEIVER	CONTROL

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